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PERSONAL.

Mr. S. T. Shankland, Superintendent of the Missouri Pacific Ry., has resigned.

Rev. Frank W. Gunsaulus, D.D., has resigned from the Presidency of Armour Institute, of Chicago, Ill.

General Edward W. Serrell, of New York city, was married to Miss Marion C. Roorbach, of New Brighton, Staten Island, on Sept. 6.

Mr. B F Egan has been appointed Superintendent of the Breckinridge Division of the Chicago Great Northern Ry., succeeding Mr. Frederick J. Hawn, resigned.

Mr. W. W. Follett, M. Am. Soc. C. E., of Denver, Colo., has been employed to represent the city of Topeka, Kan., and Mr. John A. Cole, M. Am. Soc. C. E., of Chicago, Ill., to represent the Topeka Water Co., in a valuation of the water-works plant, with a view to its purchase by the city.

Majors H. S. Kilborne, William L. Marshall, Corps of Engineers; Samuel R. Jones, Quartermaster, and First Lieutenant George G. Gateley have been appointed as a board to inspect Fort Hamilton, New York Harbor, and report upon the repairs needed and the approximate cost thereof.

Messrs. W. G. Du Bose, E. F. Eggert and J. W. Powell, Assistant Naval Constructors, have been ordered to Berlin, Germany, for a course of instruction in naval architecture. They graduated from the Naval Academy at Anapolis a year ago and have since then been studying in Glasgow, Scotland.

Mr. R. A. Travers has resigned from the Drafting Department of the Wisconsin Bridge & Iron Co. to accept a position as Assistant Engineer in the Department of Bridges and Buildings of the Chicago, Milwaukee & St. Paul Ry., with headquarters in the Old Colony Bldg., Chicago, Ill.

The following appointments have been made on the Seaboard Air Line Ry.: Mr. R. B. Seymour, Division Engineer, First Division, with headquarters at Richmond, Va.; Mr. Samuel Lawrence, Division Engineer, Second Division, with headquarters at Hamlet, N. C.; Mr. R. Irvin Scott, Division Engineer, Third Division, with headquarters at Atlanta, Ga.; Mr. J. E. M. Hanckel, Division Engineer, Fourth Division, with headquarters at Savannah, Ga.; Mr. Blair Burwell, Division Engineer, Fifth Division, with headquarters at Jacksonville, Fla.; Mr. Philip Aylett, Bridge Engineer, with headquarters at Portsmouth, Va.

OBITUARY.

Captain Moses W. Oliver, a Civil Engineer, died at his home at Lawrence, Mass., Sept. 8.

Mr John Smith, a Civil Engineer and railway contractor, dier Aug. 29, at El Paso, Tex., from an overdose of morphine.

Mr. Gustav Knabb, Civil Engineer, of Hamburg, N. Y., was killed in a railway accident at Tacoma, Wash., Aug. 22.

Captain R. H. Peck, City Engineer of Galveston, Tex., is reported to have been drowned with his wife and five children in the recent storm.

Mr. Arthur Sewall, the senior member of the shipbuilding firm of Arthur Sewall & Co., of Bath, Me., and Democratic nominee for Vice-President in 1896, died at his home in the above city, Sept. 5.

Mr. Francis Edward Hinckley, one of the incorporators of Chicago University, died at his home at West New Brighton, Staten Island, Sept. 6. Mr. Hinckley graduated from Knox College at Galesburg, Ill., in 1870, and engaged in engineering and railway undertakings in Chicago from 1875 to 1890, becoming President of the Chicago, Pekin & Southwestern R. R. He was one of the projectors of the Niagara Power & Development Co.

Major Joseph Gorlinski, Civil and Mining Engineer, died at Salt Lake City, Utah, Aug. 31. Maj. Gorlinski was born in 1825 near Warsaw in Russian Poland. He took part in the Polish revolution and was exiled. In 1849 he came to New Orleans, La., and was made City Engineer. Upon the breaking out of the Civil War he joined the Federal forces and served on the staffs of Gens. Williams and Banks. After the war he became Chief of the Drafting Division of the Interior Department at Washington, D. C. In 1869 he went to Utah, where he practiced his profession up to the time of his death.

ENGINEERING SOCIETIES.

COMING GENERAL MEETINGS.

STREET RAILWAY ASSOCIATION OF THE STATE OF NEW YORK.
Sept. 18 and 19. At Buffalo, N. Y. Secy., H. A. Robinson, Solicitor Metropolitan Ry. Co., New York City.

AMERICAN BOILER MANUFACTURERS' ASSOCIATION.
Sept. 18 to 20. Annual meeting at Cincinnati, O. Secy., J. D. Farasey, Cleveland, O.

NEW ENGLAND WATER-WORKS ASSOCIATION.
Sept. 17 to 20. Annual meeting at Rutland, Vt. Secy., Willard Kent, Tremont Temple, Boston, Mass.

EASTERN MAINTENANCE OF WAY ASSOCIATION.
Sept. 19 to 21. Annual meeting at Saratoga Springs, N. Y. Secy., F. C. Stowell, Ware, Mass.

NATIONAL ASSOCIATION OF MUNICIPAL ELECTRICIANS.
Sept. 25 to 27. Annual meeting at Pittsburg, Pa. Secy., Geo H. F. Cottel, City Electrician, Boston, Mass.

PENNSYLVANIA STREET RAILWAY ASSOCIATION.
Oct. 10 and 11. Annual meeting at Reading, Pa. Secy., S. P. Light, Lebanon, Pa.

AMERICAN INTERNATIONAL ASSOCIATION OF RAILROAD SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 16. Annual meeting at St. Louis, Mo. Secy., S. F. Patterson, Concord, N. H.

AMERICAN STREET RAILWAY ASSOCIATION.
Oct. 16 to 19. Annual meeting at Kansas City, Mo. Secy., T. C. Pennington, 2020 State St., Chicago, Ill.

AMERICAN GAS LIGHT ASSOCIATION.
Oct. 17 to 19. Annual meeting at Denver, Colo. Secy., Alfred E. Forstall, 58 William St., New York city.

AMERICAN SOCIETY OF RAILROAD SUPERINTENDENTS.
Oct. 18. Annual meeting at New York city. Secy., C. A. Hammond, Asbury Park, N. Y.

AMERICAN RAILWAY ASSOCIATION.
Oct. 24. Annual meeting at Boston, Mass. Secy., W. F. Allen, 24 Park Place, New York city.

INTERNATIONAL ASSOCIATION FOR TESTING MATERIALS.
Oct. 25 to 27. Annual meeting of American section at New York city. Secy., Richard L. Humphrey, City Hall, Philadelphia, Pa.

ROADMASTERS' ASSOCIATION OF AMERICA.
Nov. 13. Annual meeting at Los Angeles, Cal. Secy., J. B. Dickson, Sterling, Ill.

NEW ENGLAND WATER-WORKS ASSOCIATION.—The 19th annual convention will be held at Rutland, Vt., Sept. 19 and 20, and will be preceded by an excursion. The members will leave Boston at 8.30 a. m., Monday, Sept. 17, from the Terminal Station, Boston & Albany R. R., and will spend the night at Saratoga, N. Y., at either the U. S. Hotel or Congress Hall. Tuesday they will go by boat through Lakes George and Champlain, leaving Burlington, Vt., by special train, from the dock, at 4.30 p. m., and reaching Rutland at 7.00 p. m. The convention proper will open at 11.30 a. m., Wednesday. There will be two papers on the Pittsburg and Washington filtration experiments, by Morris Knowles and Robert Spurr Weston, respectively, on Wednesday afternoon. In the evening there will be an illustrated talk on "Some of the Physiographic Features Which Affect our Water Supply," by John H. Washburn, and a paper on "Electrolysis," by F. A. W. Davis. Thursday morning there will be a paper by Prof. Leonard P. Kinnicut, on "Bacterial Methods Used in England for the Treatment of Sewage so as to Prevent the Pollution of Rivers and Streams"; also a "Report of Contract Trial of 30,000,000-gallon Pumping Engine at the Chestnut Hill High Service Pumping Station of the Metropolitan Water-Works," by W. J. Sando. Thursday afternoon there will be an excursion to the Rutland and Proctor marble quarries, and in the evening there will be a paper by Frederick Law Olmstead, Jr., on "Landscape Problems in the Improvement of the Spot Pond Reservoir, Metropolitan Water-Works"; also a discussion of "Service Boxes." Friday the excursion party will return to Boston. The excursion will be in charge of Raymond & Whitcomb, 296 Washington St., Boston, Mass., from whom tickets and information may be obtained.

Willard Kent, Tremont Building, Boston, Mass., Secy.

NEW PUBLICATIONS.

WINDDRUCK.—Von R. Kohfahl, Ingenieur in Hamburg "Zeitschrift des Vereines Deutscher Ingenieure," Aug. 4, 1900. Illustrated.

An exhaustive treatment of the subject of wind pressure with experimental and statistical data.

JOURNAL OF INDUSTRY AND TRADE.—Published by the M. S. Friede Co., 320 Broadway, New York city.

The object of this journal is to serve as a medium between the American producer and the Russian consumer. It will acquaint the Russian in his own language with American industries and manufactures.

ELECTROLYTIC INTERRUPTERS.—By Benj. F. Bailey. "Electrical World and Engineer," Aug. 11, 1900; illustrated.

This is the record of an exhaustive investigation of the action of the Caldwell and Wehnelt interrupters. By the use of a contact maker data were obtained from which curves have been prepared showing the instantaneous values of the current and electro-motive force, both in the circuit containing the interrupter and in the secondary circuit of an induction coil connected thereto. The experiments were carried out through a wide range of conditions.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½x5 ins., 6x9 ins., and 9x12 ins.)

METAL SAWING MACHINES.—The Q. & C. Co., 106 Liberty St., New York city. Paper; 9 x 6 ins.; pp. 40; illustrated.

The above company manufactures cold metal sawing machines of both the arbor driven and blade driven types.

OELWEIN SHOPS OF THE CHICAGO GREAT WESTERN RY.—Arnold Electric Power Station Co., Marquette Bldg., Chicago, Ill. Paper; 9 x 12 ins.; pp. 14; illustrated.

This is a reprint of an article published in the "Railway Age," describing the above shops.

TURBINE WATER WHEELS.—Humphrey Machine Co., Keene, N. H. Paper; 4½ x 6½ ins.; pp. 32; illustrated.

In this pamphlet are described turbine water wheels of the inward flow and downward-flow types. Tables are given showing the HP., speed and consumption of water at different heads.

WIRE-WOUND WOOD PIPE.—Spokane Galvanized Wire Pipe Co., Spokane, Wash. Paper; 3 x 6 ins.; pp. 4.

The pipe described in this pamphlet is a stave pipe, made of Oregon fir and wound with galvanized wire, in place of the usual steel bands, secured by bolts. The idea, we believe, is novel and worthy of investigation on the part of possible users of wood pipe.

ELECTRICAL MACHINERY.—Bullock Electric Mfg. Co., Cincinnati, O. Paper; 6 x 9 ins.; illustrated.

This book was distributed at the Saratoga meeting of the Master Mechanics' and Master Car Builders' Associations. It contains a collection of views of the shops of the Bullock Co. and of the apparatus manufactured therein.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Sept. 13.	Water-works,	Smyrna, N. Y.	Sept. 6
Sept. 14.	Electric plant,	Christiansburg Va.	Sept. 6
Sept. 14.	Water main (9,200 ft.),	Lebanon, Pa.	Sept. 6
Sept. 14.	Dredging,	Savannah, Ga.	Aug. 16
Sept. 15.	Locks and dams,	Pittsburg, Pa.	Aug. 23
Sept. 15.	Water pipe and lead,	W. Springfield, Mass.	Sept. 6
	Advertised, Engineering News, Sept. 6.		
Sept. 15.	Water pipe,	Augusta, Ga.	Sept. 6
Sept. 15.	Electric r'y extension,	Beaver Falls, Pa.	Sept. 13
Sept. 15.	Stone arch bridge,	Carlisle, Pa.	Sept. 13
Sept. 15.	Electric plant,	Morrisburg, Ont.	Sept. 6
Sept. 15.	Boilers,	New York, N. Y.	Sept. 6
Sept. 15.	Barrack building,	Danville, Ill.	Sept. 6
Sept. 15.	Jail addition,	Susanville, Cal.	Sept. 6
Sept. 17.	Water pipe,	Washington, D. C.	Aug. 30
	Advertised, Eng. News, Aug. 30 to Sept. 13.		
Sept. 17.	Sewer,	Boston, Mass.	Aug. 30
	Advertised, Eng. News, Aug. 30 and Sept. 6.		
Sept. 17.	Library plans,	San Antonio, Tex.	Aug. 2
Sept. 17.	Improving water-works,	Yonkers, N.Y.	Aug. 30
	Advertised, Eng. News, Aug. 30 to Sept. 13.		
Sept. 17.	Fog signal house,	Buffalo, N. Y.	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.		
Sept. 17.	Mushroom anchors,	Willets Point, N. Y.	Aug. 16
	Advertised, Eng. News, Aug. 16, 23, Sept. 6, 13.		
Sept. 17.	Sewers,	Boston, Mass.	Aug. 23
	Advertised, Eng. News, Aug. 23 and 30.		
Sept. 17.	Dredging,	Savannah, Ga.	Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 13.		
Sept. 17.	Intake pipe,	Marquette, Mich.	Sept. 6
Sept. 17.	Iron bridge,	Pittsfield, Mass.	Sept. 6
Sept. 17.	Vaults, etc.,	New York, N. Y.	Sept. 6
Sept. 17.	Filling,	Toledo, O.	Sept. 6
Sept. 17.	Sewer,	Rome, N. Y.	Sept. 6
Sept. 17.	Electric plant,	Shawano, Wis.	Sept. 13
Sept. 17.	Lightning rods,	Pittsburg, Pa.	Sept. 13
Sept. 17.	Street improvement,	Lancaster, O.	Sept. 13
Sept. 17.	Paving,	Ludington, Mich.	Sept. 13
	Advertised, Engineering News, Sept. 13.		
Sept. 17.	Brick paving,	Lawrence, Kan.	Sept. 13
	Advertised, Engineering News, Sept. 13.		
Sept. 17.	Water-works,	Shawano, Wis.	Sept. 13
Sept. 17.	Water pipe, and castings,	Winnipeg, Man.	Sept. 13
Sept. 17.	Water-works,	Arnprior, Ont.	Sept. 13
Sept. 17.	Sewerage system,	Watertown, S. Dak.	Sept. 13
Sept. 17.	City hall,	Portage, Wis.	Sept. 13
Sept. 18.	Paving block,	Westerly, R. I.	Sept. 13
Sept. 18.	Macadamizing,	White Plains, N. Y.	Sept. 13
	Advertised, Engineering News, Sept. 13.		
Sept. 18.	Sidewalk,	Bessemer, Ala.	Sept. 13
Sept. 18.	Brick sewers,	Providence, R. I.	Sept. 13
	Advertised, Engineering News, Sept. 13.		
Sept. 18.	Macadam paving,	Oberlin, O.	Sept. 6
Sept. 18.	Court house,	Xenia, O.	Sept. 6
Sept. 18.	Naval supplies,	Puget Sound, Wash.	Sept. 6
Sept. 18.	Repairing heating plant,	Elmira, N. Y.	Sept. 6
Sept. 18.	Ordnance storehouse,	Willets Point, N. Y.	Aug. 23
	Advertised, Eng. News, Aug. 23 to Sept. 13.		
Sept. 18.	Macadam paving,	White Plains, N. Y.	Aug. 30
Sept. 18.	School house,	Akron, O.	Aug. 30
Sept. 18.	Water-works, etc.,	Clarksdale, Miss.	Aug. 30
Sept. 18.	Electric plant,	Fredericksburg, Va.	Aug. 30
Sept. 18.	Water and sewer bonds,	Clarksdale, Miss.	Aug. 30
Sept. 19.	Sewer,	Cleveland, O.	Aug. 30
Sept. 19.	School house,	Swan, Ia.	Sept. 6
Sept. 19.	Engine house,	New York, N. Y.	Sept. 6
Sept. 19.	Fire apparatus, etc.,	New York, N. Y.	Sept. 6
Sept. 19.	Sewers,	New York, N. Y.	Sept. 13
Sept. 19.	Fire department supplies,	New York, N.Y.	Sept. 13
Sept. 19.	Paving,	Midvale, Pa.	Sept. 13
Sept. 19.	Fire engine building,	New York, N. Y.	Sept. 13
Sept. 20.	Bridges, etc. (5),	Albany, N. Y.	Sept. 13
	Advertised, Engineering News, Sept. 13.		
Sept. 20.	Supplies,	Philadelphia, Pa.	Sept. 13
Sept. 20.	Paving, etc.,	New York, N. Y.	Sept. 13
Sept. 20.	Well,	Randolph, Neb.	Sept. 13
	Advertised, Engineering News, Sept. 13.		
Sept. 20.	Sewers,	Avalon, Pa.	Sept. 13
Sept. 20.	Sea wall,	Boston, Mass.	Seut. 13
Sept. 20.	Electric plant,	Natchitoches, La.	Sept. 6
	Advertised, Eng. News, Sept. 6 and 13.		
Sept. 20.	Water-works, etc.,	Natchitoches, La.	Sept. 6
	Advertised, Engineering News, Sept. 6.		
Sept. 20.	Feeder crib,	Columbus, Ind.	Sept. 6
Sept. 20.	Pump, engine, etc.,	Fort Recovery, O.	Sept. 6
Sept. 20.	Well shaft, etc.,	Randolph, Neb.	Sept. 6
Sept. 20.	Water-works,	Laurel, Md.	Sept. 6
	Advertised, Eng. News, Sept. 6 and 13.		
Sept. 20.	Steam launch,	Bellevue, Pa.	Sept. 6
Sept. 20.	Sewer,	Scranton, Pa.	Sept. 6
	Advertised, Eng. News, Sept. 6 and 13.		
Sept. 21.	Repairing jetties,	Port Clinton, O.	Aug. 30
Sept. 21.	Street lighting,	New Castle, Pa.	Sept. 13
Sept. 21.	Switchboards, etc.,	New London, Conn.	Sept. 6
Sept. 21.	Paving,	Moline, Ill.	Sept. 13
Sept. 22.	Hot water heating plant,	Washington, D.C.	Sept. 13
Sept. 22.	Naval building,	New York, N. Y.	Sept. 6
Sept. 22.	Electric lighting,	Sidney, O.	Sept. 6
Sept. 22.	Street improvement,	Nelsonville, O.	Sept. 6
Sept. 22.	Brick sewers (2),	Zanesville, O.	Sept. 6
Sept. 22.	Levee work,	Cincinnati, O.	Aug. 30
Sept. 22.	Paving,	Akron, O.	Aug. 30
Sept. 22.	School house,	Washington, D. C.	Aug. 30
Sept. 24.	Beacons,	Mobile, Ala.	Aug. 30
Sept. 24.	Paving,	Toledo, O.	Sept. 6
Sept. 24.	Fireproofing building,	Cleveland, O.	Sept. 6
Sept. 24.	Fire house,	Cleveland, O.	Sept. 6
Sept. 24.	Sewer,	Canal Dover, O.	Sept. 6
Sept. 24.	Hotel,	Memphis, Tenn.	Sept. 13
Sept. 24.	Soft lead (40,000 lbs.),	Holyoke, Mass.	Sept. 13
	Advertised, Engineering News, Sept. 13.		
Sept. 24.	Fire station and jail,	Lorain, O.	Sept. 13
Sept. 24.	School building,	Barkeley, Cal.	Sept. 13
Sept. 25.	Electric plant,	Neoga, Ill.	Sept. 13
	Advertised, Eng. News, Sept. 13 and 20.		

Sept. 25. Combination bridges, Grand Island, Neb..Sept. 13
Sept. 25. Steel bridge, Meadowview, Va. .....Sept. 13
Sept. 25. Water-works, etc., Neoga, Ill. .....Sept. 13
Advertised, Eng. News, Sept. 13 and 20.
Sept. 25. Water-works, St. Mary's, W. Va.....Sept. 13
Advertised, Engineering News, Sept. 13.
Sept. 25. Bonds, Neoga, Ill. .....Sept. 13
Advertised, Eng. News, Sept. 13 and 20.
Sept. 25. Officers' quarters, and hospital, Ft. Keogh. Sept. 13
Sept. 25. State building, Buffalo, N. Y.....Sept. 6
Sept. 25. Water main, Hammond, Ind.....Sept. 6
Sept. 25. Army ranges, Jeffersonville, Ind.....Sept. 6
Sept. 25. Dredging, Boston, Mass.....Aug. 30
Advertised, Eng. News, Aug. 30 to Sept. 20.
Sept. 25. Hospital buildings, Gallipolis, O. .....Aug. 30
Sept. 25. Pipe sewers, Bowling Green, O.....Aug. 16
No date. Bridges (3), Chicago, Ill. .....Sept. 13
" .Bridges (7), Fredericton, N. B.....Sept. 13
" .Telephone, Staunton, Va.....Sept. 13

RAILWAYS.

ATCHISON, TOPEKA & SANTA FE.—It is proposed by the company to expend about $50,000 in making terminal improvements at Guthrie, Okla.

BELLINGHAM BAY & BRITISH COLUMBIA.—The company has authorized a survey through the Cascade Mountains in northern Washington. The line is proposed to tap the State Creek mining district. J. J. Donovan, Vice-Pres. and Gen. Supt., New Whatcom, Wash.

CASTLE-SHANNON.—D. M. Hays, the original promoter of this road, is said to have secured a controlling interest in the concern. It is stated that Mr. Hays is backed by Pittsburg, Pa., capitalists who propose to expend $1,000,000 in the improvement of the properties.

CHICAGO & NORTHWESTERN.—It is stated that the company will extend its road from Pierre, S. Dak., to the Black Hills. E. C. Carter, Ch. Engr., Chicago, Ill.

ERIE.—C. W. Buchholz, Ch. Engr., 21 Cortlandt St., New York, informs us that bids received for the work to be done in eliminating the grade crossings at Genung St., Middletown, N. Y., have been forwarded to the board of railroad commissioners, and contracts will not be awarded until a decision on the matter is reached by the commission, which will be in about two weeks.

GREAT EASTERN.—L. V. Morrill, Snow Hill, N. C., informs us that the route for this line, 160 miles in length, has been surveyed, and locations have been made from Fremont to Snow Hill. The line will extend from Raleigh, N. C., to Engelhard. The Eagle Construction Co., Toledo, O., has the contract for constructing the line, and C. E. Coon, Mgr. of the Construction Co., has established headquarters at Fremont, N. C., and has already started work on the grading. Part of the road has been sublet. The road will pass through a rich section of country. J. N. Lynch, Kinston, N. C.

GURDON & FORT SMITH.—The company has filed a certificate of increase of capital stock with the Secretary of State of Arkansas for an increase of capital stock from $40,000 to $200,000, and for an extension of 20 miles to Caddo Gap. Wm. Grayson, Pres., St. Louis, Mo.

KANSAS CITY, MEXICO & ORIENT.—It is stated that a party of engineers, under the supervision of John L. Case, Engr., will start at once from Guaymas, Mex., for Topalabampo Bay, and will thence proceed up the Choix River, in Fuerto Valley, to Fuerto, where they will begin locating a line for this company. The party will have charge of the construction of the road to the Sierra Madra Mountains to connect with the line from that direction. Mr. Case will represent the Guardian Trust Co., as well as the railway company, in locating wharves at Topolobampo. The line from Chihuahua to Presidio de Norte is being located by C. E. Osborn.

LAKE BENNETT.—Application has been made to the provincial legislature of British Columbia for the incorporation of this company, to build a railway from the Adey River to Lake Bennett, according to reports.

LOUISVILLE & NASHVILLE.—It is stated that surveys for a line from Manchester, Ky., to Pittsburg coal mines, which have been in progress all summer, have been completed. If the road is built it will be about 30 miles long. This company also proposes to build a branch two miles long from a point near Alexandria, Ala., to the ore mines being opened by the Anniston Brown Ore Co.

MANCHESTER & ONEIDA.—Bids are wanted for ties, iron, etc., to be used in the construction of the branch from Manchester to Oneida, Ia., about nine miles. M. F. LeRoy, Manchester, Ia., informs us that the line has been surveyed, and that the road will connect with the Chicago Great Western and the Chicago, Milwaukee & St. Paul roads at Oneida. Jas. Hutchinson, Pres., Manchester.

MANSFIELD SHORT LINE.—C. D. Crouch, Gen. Mgr., Mansfield, Ohio, informs us that surveys have been completed for the proposed road from Mansfield via Spring Mills to Shelby, Ohio, and all rights of way have been secured. The construction capital has been secured and contracts will be let immediately. C. W. French, Pres.; W. H. Hendren, Acting Ch. Engr., Mansfield.

MISSOURI, KANSAS & TEXAS.—S. B. Fisher, Consulting Engr., St. Louis, Mo., informs us that surveys for the extension from San Marcos, through New Braunfels to San Antonio, Tex., about 49 miles, have been completed, and negotiations for the rights of way are in progress. The contract for the steel bridges has been awarded to the Phoenix Bridge Co., Philadelphia, Pa. The masonry work will be done by the company's forces.

MONTE CRISTO.—Incorporated in Washington with $2,000,000 capital stock, "to purchase, operate and maintain a railway and telegraph line from a point of connection with the railway of the Seattle & International Railway Co. at Hartford Junction, Snohomish county, and extending easterly to the town of Monte Cristo." Wm. C. Butler, F. H. Brownell and T. W. Foster, Everett, Wash., are interested.

NASHVILLE & KNOXVILLE.—A contract is reported to have been let to C. C. King & Bro., contractors, Cookeville, Tenn., for constructing an extension from the present terminus at Monterey, easterly to Hanging Limb, in Putnam county, about 16 miles. The extension is to be built in order to reach a large amount of coal land in the upper mines at Monterey.

NATCHEZ, BALL & SHREVEPORT.—This company has been chartered in Louisiana with a capital stock of $500,000 to build a railway from Ball, La., on the Houston, Central Arkansas & Northern Ry., thence in a southeasterly direction to Natchez, Miss., and in a northwesterly direction from Ball to Shreveport, La. C. E. Ball, James M. Nugent and Robt. P. Hunter are interested.

NEW YORK, NEW HAVEN & HARTFORD.—The company proposes to make extensions and improvements to its facilities for handling freight traffic in the vicinity of New York, N. Y. A tract of land has been purchased at Oak Point and will be utilized for a new freight yard. It is said to be the company's intention of ultimately extending its four-track road from New Rochelle to the Harlem River. C. M. Ingersoll, Jr., Ch. Engr., New Haven, Conn.

NORTHERN PACIFIC.—Chas. S. Bihler, Div. Engr., Tacoma, Wash., informs us that a preliminary survey only has been made for the proposed line between the Columbia River and Ellensburg. Nothing further has been done in the matter, and no steps will be taken towards constructing the line. The company is said to have awarded contracts for a number of short extensions and branch lines in Minnesota, Washington and Manitoba. A line will be built from Arlington to Darrington, a distance of 30 miles. This is a branch of the Seattle & International. Larson & Greenough, Spokane, are the contractors.

OGDEN & LUCIN.—It is announced that the Southern Pacific Co. will begin work on the cutoff on the Great Salt Lake, Utah, at an early date. The right of way has been obtained, and it is stated that the 14 miles west from Ogden, Utah, to the lake and east from Lucin to the west shore of the lake will be completed this fall. Some 20,000 piles will be driven to support the tracks over the lake. W. Hood, Ch. Engr., Southern Pacific Co., San Francisco.

OMAHA, KANSAS CITY & EASTERN.—It is stated that this company will soon begin extending its road from Quincy, with Peoria, Ill., as the objective point. E. M. Collins, Ch. Engr., Kansas City, Mo.

OREGON R. R. & NAVIGATION CO.—A contract has been let to Miller & Welch, contractors, probably of Wallace, Idaho, for building an extension from the line below Wardner, Idaho, to the site of the concentrators, about five miles distant.

PEOPLES.—Reports from Pana, Ill., state that this company has been organized to build a road from Mount Zion, south 16 miles to a point near Yantisville, and probably to Pana. Verton Curtis, Pres.; D. G. Sanner, Vice-Pres., and J. E. Harper, Gen. Mgr., Prairie Home, Ill.

REPUBLIC & KETTLE RIVER.—Incorporated in Washington with a capital stock of $1,000,000, to build a railway from Republic to the international boundary line at Nelson, Wash. It is stated that connections will be made with the Canadian Pacific R. R. to Grand Forks, B. C. Warner Miller, Pres., 30 Broad St., New York.

ST. LOUIS, FENTON & SOUTHWESTERN.—The St. Louis County Court of Missouri has granted this company a three months' extension of time for beginning the construction of the road. J. B. Clayton, Kirkwood, Mo., who is the promoter of the road, secured the extension.

TEXAS CENTRAL.—Chas. Hamilton, Pres. and Gen. Mgr., Waco, Tex., is reported to have confirmed the report of the extension of the road from Hansford, Tex., to Santa Fe, where a connection will be made with the Denver & Rio Grande

STREET AND ELECTRIC RAILWAYS.

BOSTON, MASS.—The Waltham St. Ry. Co. has been incorporated with $60,000 capital stock, to build a line between Weston and Waltham. Henry S. Milton, Waltham; E. D. Van Tassel, Newton, and C. H. Wilson, Brookline.

NATICK, MASS.—A company is reported to have been formed to build an electric railway connecting this place with Sherborn and Holliston. The capital stock is $50,000. The road will be about nine miles in length, and will be built this fall providing the franchises are secured.

SOUTH FRAMINGHAM, MASS.—The selectmen have granted a franchise to the Worcester, Middlesex County Electric Ry. Co., for a line towards the Hopkinton town line as far as Delia St. W. B. Ferguson is interested.

PROVIDENCE, R. I.—Geo. W. Prentice, Treas., 615 Barrigan Bldg., Providence, informs us that surveys have been made and rights of way secured for the Providence & Danielson Ry. Co.'s line from Johnsontown line to the Connecticut state line, about 22 miles, but no contract will be let as the company will do its own building. The materials and equipment have been purchased. Grading is now in progress. V. K. Nash, Ch. Engr., Providence.

ITHACA, N. Y.—The proposition of building a trolley road from this place to Auburn is assuming definite shape. The right of way from the city line of Auburn to the city limits of Ithaca, about 40 miles, have been secured. The road will pass through a territory having a population of about 75,000. An organization is being formed with Isaac Hazard, Pres., Poplar Ridge; Herbert Howland, Vice-Pres., Sherwood; Dexter Wheeler, Secy., Poplar Ridge.

PEEKSKILL, N. Y.—The Peekskill Lighting & Railway Co. has been incorporated with $500,000 capital stock, to operate the roads running from this place to Lake Monegan, and to the state camp ferry landing, from the Peekskill station; also to construct a line from Peekskill to Ver Plank's Point. B. B. Nostrand, Jr., Peekskill; Richmond Talbot, Tuxedo, and H. S. Morton, Hoboken, are interested.

PENN YAN, N. Y.—The survey for the Pultney extension of the Penn Yan, Keuka Park & Branchport Electric Ry. has been completed, and the maps and plans are now being prepared.

TROY, N. Y.—Local papers state that the village board of trustees of Green Island have granted a franchise to the Union Traction Co. to build a double-track branch along Albany Ave.

BRIDGETON, N. J.—It is stated that the Bridgeton & Millville Traction Co. will extend its line next spring from Cedarville to Port Norris and Bivalve. D. J. Sullivan, Pres., Philadelphia, and S. L. Tingley, Secy.

CAMDEN, N. J.—It is stated that the South Jersey Gas, Electric Light & Traction Co. has acquired the Camden, Gloucester & Woodbury Ry. and the Gloucester Electric Light & Gas companies. The work on the extensions of the Camden, Gloucester & Woodbury Ry. will be started within three months.

JERSEY CITY, N. J.—David Young, Pres., Jersey City, Hoboken & Paterson St. Ry., has announced that the proposed road from the 14th St. ferry in Hoboken along the Bergen turnpike to Hackensack, will be built. The Bergen County Turnpike Co., acquired by this company, has the privilege of building along the Bergen turnpike, but in order to avoid any friction the company will consult all the municipalities directly concerned.

BEAVER FALLS, PA.—Bids are wanted by the Riverview Electric St. R. R. Co., according to reports, until Sept. 15 for extending the line into New Brighton. Harry T. Barker, Engr., 712 11th St.

McKEESPORT, PA.—Local papers state that the construction of the proposed short line electric road from Cliff St. and Fifth Ave., up the hill and over Highland Grove, will be started at an early date. Bowman Bros. are the projectors.

NORRISTOWN, PA.—The powerhouse of the Philadelphia & West Chester Traction Co. at Llanerch, was destroyed by fire on Sept. 4. J. W. Silliman, Ch. Engr., Philadelphia.

PITTSBURG, PA.—It is stated that bonds are to be issued by the West Liberty St. Ry. Co. for construction purposes. The new line will be about 4½ miles in length, and will be a part of the Pittsburg & Birmingham Traction Co.

ASHEVILLE, N. C.—The Asheville Electric Co., J. H. Cutter, Agent, has acquired control of the Asheville & Biltmore St. Ry.

COLUMBUS, GA.—The contract for the building of the new powerhouse for the Columbus R. R. Co. has been let to Barlow Bros.

CLEVELAND, O.—It is stated that the Cleveland City Ry. Co. will begin the work of changing the Payne Ave. cable line to electricity about Oct. 1. G. G. Mulhern, Gen. Supt.

LISBON, O.—Work will be started at once on the Alliance, Sebring & Salem Electric R. R. Arrangements are being made to have the Sebring light plant furnish the power temporarily, for the west end of the line, until a plant can be erected by the company. Geo. E. Sebring, Sebring and H. W. Klein, Pittsburg, are interested.

WARSAW, O.—The county commissioners have granted a franchise to E. D. McKee, L. G. Hallock and [illegible] Sands, Wheeling, W. Va., and Steubenville, to [illegible] an electric railway within a year, along the county road from Newcomerstown, through West Lafayette & Coshocton.

INDIANAPOLIS, IND.—John H. Mahoney, Pres., Indianapolis, Morristown & Rushville Traction Co., 912 Stevenson Bldg., Indianapolis, informs us that the right of way for the company's line is secured, and surveys are about to be started. The construction capital is not yet secured and no date has been decided on for the awarding of contracts. The road will be 39 miles in length and will pass through six towns besides those named in the title.

GRAND RAPIDS, MICH.—The construction survey of the route of the proposed Grand Rapids-Holland electric road has been completed by Civil Engineer Christ. A right of way 68 ft. wide has been secured, and the road will be double-tracked for the entire distance, about [illegible] miles. No sharp curves will be encountered.

PORT HURON, MICH.—Edward F. Percival, Secy., Lansing Northern Ry., Port Huron, writes us that the company was organized for the purpose of condemning land for the Lansing, St. John & St. Louis R. R. The road is projected to run from Lansing through St. Johns, Ionia, Rapids, Alma and St. Louis, about 60 miles. John [illegible] Mills, Pres., Port Huron.

CHICAGO, ILL.—The contract for constructing the road bed of the Aurora, Wheaton & Chicago Ry. Co. has been let to the Pound Construction Co., 27 Metropolitan Block, Chicago. The line will be operated by electricity and will be about 60 miles in length. The company's office is Room 1409, 100 Washington St., Chicago.

FARMINGTON, MO.—Local papers state that the project to construct an electric railway connecting this place and Delassus with the Flat River mining district, has been revived. A preliminary survey has been started and plans will soon be perfected. A. N. Fisher, Indianapolis; L. [illegible] Heazy, Columbus.

DENVER, COLO.—Permission has been granted by the board of public works to A. L. Doud, representing a new company, to build a new line to University Park, to be about 7,000 ft. in length.

ELECTRIC LIGHT AND POWER.

BOSTON, MASS.—The Charleston Improvement Society has appointed a committee to arrange for the illumination of the summit of Bunker Hill Monument by 80 electric lights.

NEW LONDON, CONN.—Bids are asked until Sept. 29 for delivering at New London, 250 incandescent lamps. Maj. Smith A. Leach, U. S. Engr.

NORWICH, CONN.—At a recent monthly meeting of the council Mayor Thayer recommended the municipal ownership and operation of an electric lighting plant.

AMSTERDAM, N. Y.—The Empire State Power Co. will construct two storage reservoirs near the headwaters of the Schoharie Creek, at a cost of $850,000. Plans are now being prepared and negotiations for the land are being made. Contracts will be let this fall.

HORSEHEAD, N. Y.—Local papers state that a vote will be taken this month on the proposition of installing an electric light system in this village.

NEW YORK, N. Y.—The park commission has received the following bids for installing an electric light plant in the new east wing of the Metropolitan Museum of Art: Williams & Gerstal, $38,700; the United Engineering & Contracting Co., 21 Park Row, $37,844.

SCHENECTADY, N. Y.—The Miskayuna Power Co. has been incorporated with $100,000 capital stock. The company will dam the Mohawk River just below the state dam at Craig for power purposes. E. C. Brown and N. H. Fritchman, New York, and W. H. Graves, Rexford Flats.

NEW CASTLE, PA.—Bids are asked until Sept. 24 for lighting the streets and public buildings of this city. Bids will be taken for electric arc lights, incandescent light and Welsbach street lights. John C. Jackson, Cy. Clk.

WINDBER, PA.—It is stated that a new electric plant to cost $25,000 will be built here.

CRISFIELD, MD.—The Crisfield Ice Mfg. Co. has been granted a franchise to put in a system of electric lights throughout the town. The town has contracted with the company to light the place, using two arc lights and 152 32-c. p. lamps, at a cost of $10,000. Work will be started at once.

WASHINGTON, D. C.—The following bids were received by the bureau of yards and docks at the Navy Department on Sept. 1, for constructing underground conduits and manholes for electric wire at the navy yard: George W. Ledlie, Philadelphia, Pa., $14,400; American Vitrified Conduit Co., New York, $13,807; Charles Killeen & Co., Washington, $27,534; Arthur L. Shreve, Baltimore, Md., $19,969; M. F. McNamara & Co., Washington, $14,956; H. M. Schreiner, Washington, $18,146; McKay Engineering Co., Baltimore, $19,445; The Brennan Construction Co., Washington, $17,796; American Stone Conduit Co., Chicago, $14,983.

WELDON, N. C.—The Roanoke Navigation & Water Power Co. will establish an electric plant and will develop 1,000 HP. to run machinery and light the new mills at Roanoke Rapids.

DYERSBURG, TENN.—Plans are on file for a water works and an electric lighting plant to be installed in this town. Address W. A. Faulkes, Mayor.

ELORA, TENN.—A company has been formed to develop the water power of the Elk River near Kelso, about 10 miles from this place. The cost of the plant, including the construction of a dam, will be about $35,000. R. D. Warren, C. D. Bagley and W. R. Webb, Bellbuckle, are interested.

BAY CITY, MICH.—The council has granted a franchise to the Traction & Power Co., Bay City, to establish an electric lighting system in this city.

DETROIT, MICH.—Local papers state that the commissioners decided Aug. 30 to call for bids for about $40,000 worth of new engines and dynamos. The bid of the National Carbon Co. for carbons amounting to $10,051, was accepted by the commissioners.

SAULT STE. MARIE, MICH.—The Soo Light & Power Co. is being organized for supplying gas and electric current for light and power, under a 30-year franchise for each. The capital stock is $100,000. Estimates and bids for both the plants and street systems are being called for by the company, and it is proposed to construct the plants during the present season if possible. J. N. Goltra is the temporary secretary.

WEST BRANCH, MICH.—H. H. Vaughn writes us that the electric plant to be built by the Vaughn Electric Construction Co. will be completed by May next. The plant will cost about $8,000. Willis N. Vaughn, Des. Engr.

NEOGA, ILL.—Bids are asked until Sept. 25 for furnishing the materials and for constructing a plant and water-works and for the purchase of bonds and water certificates, as described in our advertising columns. J. D. Wallace, Engr., Champaign, Ill.; L. W. Hickernell, Clk.

SHAWANO, WIS.—Bids are asked until Sept. 17 for a water-works and an electric light plant complete. D. E. Wescott, Cy. Clk.

BILLINGS, MONT.—Bids are asked until Oct. 2 for furnishing 50 electric lights for a period of six years, according to specifications. J. B. Herford, Cy. Clk.

KENNETT, MO.—The council is considering the question of having some additional lights put in throughout the city. If the plans are carried out the local plant will need additional machinery. Chas. Sickles, Mgr.

HOUSTON, TEX.—Bids are asked until Nov. 5 for constructing a complete electric light plant in this city. Geo. V. Forde, Eng., 401 L. & L. & G. Bldg., New Orleans, La. Arthur Lipper, Cy. Secy.

SAN ANGELO, TEX.—It is stated that the Concho Power Co. will begin the construction of a dam and the formation of an artificial lake, as soon as certain legal affairs can be settled. The company proposes to develop the water power for manufacturing purposes and supply the water for irrigation. J. L. Millspaugh, Pres.

LEADVILLE, COLO.—The Leadville Gas & Electric Co. has been incorporated as a consolidation of the Leadville Light Co. and the Leadville Illuminating Gas Co. The capital stock is $200,000. Both plants now in operation will be utilized by the new concern. The plant of the former company will be doubled in size and made a power generator for the Leadville mines. Work will be started at once. John F. Campion, C. K. Boettcher and Robt. B. Sullivan are interested.

LOVELAND, COLO.—The following bids were received Aug. 25 by A. D. Martin, Clk., for erecting a plant: Hendree & Bolthoff, Denver, Colo., $2,685, steam plant; Gilbert Wilks & Co., Denver, Colo., $5,478, electric equipment and pole line; C. E. Shirey, Loveland, Colo., $1,100, building; Skinner & Lethman, Denver, Colo., $7,326, complete plant except building.

PORTLAND, ORE.—It is stated that the La Grande Light & Power Co. will utilize the falls of the Grand Ronde River at Ore Dell to secure power for operating its plant. Bids will be called for as soon as the surveys have been completed. Two turbine wheels of 100 HP. each will be constructed. About $10,000 will be spent on the work.

RIVERSIDE, CAL.—The plans for a new city powerhouse, prepared by Architect Ridgway, have been accepted and bids are now being called for. The contract is to be let in about a week.

CAYUGA, ONT.—The taxpayers have appointed a committee to report on the proposition of operating an electric light plant and water-works under municipal control. The plant in this town was destroyed by fire a short time ago.

ST. CATHERINES, ONT.—It is stated that the corporation will soon undertake the development of additional water power from the Welland Canal above Thorold.

THESSALON, ONT.—The council will take up the question of installing an electric light plant.

TORONTO JUNCTION, ONT.—The question of public ownership of the town's lighting system is being considered. The system is now in poor condition and the council has an estimate that to put it into a good condition $16,000 will be needed, and to amalgamate it with the water-works plant about $28,000 will be required. The town is forbidden by act of Parliament to issue debentures for the next eight years, and a proposed company offers to purchase the plant and make the necessary improvements, providing the town enter into contract for street lighting.

HUNTINGTON, QUE.—The contract for lighting the town for 20 years has been given to Boyd & Co. They will install a 1,000-light dynamo and develop 1,000 HP., having the works completed by Jan. 1.

CHARLOTTETOWN, P. E. I.—A special committee has been appointed by the council to obtain information regarding a municipal plant to cost about $20,000.

BRIDGES.

HENNIKER, N. H.—Curtis B. Childs, Henniker, may be addressed in reference to the proposed new steel bridge to be built over the Contoocook River to replace the structure recently burned.

BURLINGTON, VT.—Local papers state that the Central Vermont Ry. Co. is making preparations to build a new bridge over the Winooski River near the Intervale road.

NEW BEDFORD, MASS.—The council has awarded the contract for removing the old bridge and building a temporary structure, to Cole Bros., at $12,650.

SOMERVILLE, MASS.—John P. Prichard, St. Comr., has made a contract with Hobart, Cabot & Daly, Boston, for building a stone arch bridge, at $18,000, from plans prepared by E. W. Bailey, Cy. Engr. The bridge will span the Mystic River at Boston Ave.

ALBANY, N. Y.—Bids are asked until Sept. 20 for constructing a steel lift bridge over the Erie Canal at West Ave., Rochester; one over the Erie Canal at Washington St., Utica; a steel Warren truss bridge, 104-ft. span, over the Erie Canal opposite St. Johnsville, town of Minden; a steel bridge of two 65-ft. spans with abutments, over Clear Lake Creek, on the Cattaraugas Indian Reservation, Erie county; a steel road bridge, 25-ft. span, over Cazenovia Lake outlet at Foreman St., Cazenovia; a steel foot bridge over the Erie Canal at Brainard St., Whitesboro, and for improving by cut-offs and bridges the west branch of Eighteen Mile Creek, in Lockport and Newfane, as stated in our advertising columns. John M. Partridge, Supt.

PORT BYRON, N. Y.—The Groton Bridge Co. has been awarded the contract for building a new iron bridge, with stone abutments, over the Owasco Creek, near Yellow School House, at $2,600.

ROME, N. Y.—The following bids have been received by the highway committee for building a bridge over Wood Creek between Vienna and Rome: Massillon Bridge Co., Toledo, steel bridge, $6,398; F. L. Long & Co., New York, steel bridge, $6,700; Variety Iron Works Co., Cleveland, O., steel, $6,297; Canton Bridge Co., Canton, O., steel, $6,490; Toledo Bridge Co., Toledo, O., steel, $6,500; Wrought Iron Bridge Co., Canton, O., plan A, $5,977; B, $5,770; C, $5,698; General Construction Co., Rochester, steel, $6,700; L. Carey, Rome, wooden, $3,223 (accepted); Owego Bridge Co., steel, $6,400.

CARBONDALE, PA.—The council has awarded the contract for a bridge over Racket Brook, on North Church St., to the Nelson & Buchanan Co., at $2,200. The other bidders were the Berlin Iron Bridge Co., $2,400, and the Penn Bridge Co., $2,295.

CARLISLE, PA.—Bids are asked until Sept. 15 for constructing a stone arch bridge over a stream in this town, according to reports. Parker Moore, Cy. Engr.

EBENSBURG, PA.—The following bids were received by the county commissioners Sept. 4 for constructing the iron bridge over the Blacklick at Vintondale: Lord & Huber, Patton, $1,758 (accepted); J. S. Artley, Johnstown, $2,172; Shumaker & Lloyd, Ebensburg, $2,249.

HAMBURG, PA.—M. M. Dreibelbis, Civil Engr., South Fourth St., writes us that plans and specifications are being prepared for a stone bridge across Sacony Creek at Virginsville; also for a 120-ft. span steel structure for the same place, for which bids will soon be asked, and the most economical structure will be decided on by the commissioners.

HARRISBURG, PA.—The finance committee has awarded the contract for furnishing the steel for the two defective spans of the Mulberry St. bridge to E. N. Cooper & Co., at $2,350. The Pennsylvania Steel Co. bid $1,250 for one span or $2,500 for both.

PITTSBURG, PA.—The Secretary of War has authorized the construction of a new steel bridge over the Allegheny River, at 11th St., to be built by the Pittsburg, Ft. Wayne & Chicago R. R. Co. The bridge will be double-decked, and will cost about $725,000, according to a reported statement from L. F. Larle, Gen. Mgr. Pennsylvania Lines West of Pittsburg. Bids will be asked at once.

SLATINGTON, PA.—The county commissioners have received the following bids for the erection of a bridge over Trout Creek, on Lower Main St.: Superstructure, King Bridge Co., Canton, O., plan A, $14,275; B, $14,400; C, $14,605; Penn Bridge Co., Beaver Falls, Pa., plan A, $15,995 (accepted); B, $17,506; Groton (N. Y.) Bridge & Mfg. Co., plan A, $15,000; B, $14,844; Nelson & Buchanan Co., Chambersburg, Pa., plan A, $14,500; B, $15,760; C, $15,965; D, $17,445; Owego Bridge Co., Owego, N. Y., $23,700. The contract for the superstructure was let to Horn & Neff, Slatington.

BALTIMORE, MD.—The county commissioners have instructed Albert Weber, Bridge Supt., to prepare an estimate of the cost of a bridge over the Patapsco River at Avalon.

MEADOWVIEW, VA.—Bids are asked until Sept. 25 for building a steel highway bridge at Craigs Ford, three miles from Glade Spring, to have one span 140 ft. in length and 16 ft. wide. George Stuart, Meadowview.

ATHENS, ALA.—The county commissioners have let the contract for the new steel bridge to span Round Island Creek at Black's Gin, to Capt. F. M. Dabson, Birmingham.

BILOXI, MISS.—Bids are wanted by the Mayor until Sept. 14, according to reports, for a combination bridge over Back Bay, to cost about $17,000.

BATAVIA, O.—Bids are asked until Sept. 15 for building a 90-ft. steel bridge over Nine Mile Creek, according to reports. John W. Davis, County Audr.

CINCINNATI, O.—Bids are wanted by the county commissioners until Oct. 6 for the construction of a culvert in Bloody Run Creek, on the Paddock road, Millcreek township.

CLEVELAND, O.—The board of public service has instructed Geo. Holmes, Clk., to advertise for bids for the reconstruction and repair of the Liberty St. viaduct, estimated to cost $32,500. The work will be on the superstructure and approaches. H. J. Stanley, Cy. Engr., prepared the plans, specifications, etc., for the improvements.

HARTFORD CITY, IND.—The iron bridge which spanned the Mississinewa River, on the Walnut St. pike, recently collapsed. The structure will be rebuilt at once, at a cost of several thousand dollars, according to reports.

CHICAGO, ILL.—Bids are wanted for constructing three bridges, to be located at Clybourn and North Aves. and West Division St. The structures are after a plan prepared by Engineer Willman and approved by City Engineer Ericson. Each will cost about $150,000.

ROBINSON, ILL.—Bids are asked until Sept. 14 for constructing an iron bridge 40 ft. long, according to reports. W. H. Severn, Town Clk.

APPLETON, WIS.—The Chicago & Northwestern and Chicago, Milwaukee & St. Paul Railways have applied to the government for permission to build jointly a bridge over the Fox River.

ADA, MINN.—Bids are asked until Sept. 17 for erecting nine bridges over Hegne Hendrum Ditch No. 1, according to report. E. J. Herringer, County Audr.

NEW ULM, MINN.—Bids are asked until Sept. 15 for constructing an iron or steel bridge over the Big Cottonwood River, about 3½ miles south of Essig Station, to be 100 ft. in length, according to reports. L. G. Vogel, County Audr.

ST. CLOUD, MINN.—The failure of the mill dam at Clearwater, on Sept. 5, carried away a 100-ft. span of the Great Northern R. R. bridge and two wagon bridges.

WELLINGTON, KAN.—Bids are asked until Oct. 3 for constructing one 80-ft. steel span bridge, with 16-ft. roadway, on tubular iron piers, over Slate Creek between sections 23 and 24, township 33. W. E. Wood, County Clk.

GRAND ISLAND, NEB.—Bids are asked until Sept. 25 for building four undertruss combination bridges in Hall county, three to be 30 ft. long and the fourth 40 ft., according to reports. C. H. Menck, County Clk.

ST. JOSEPH, MO.—Bids are asked until Sept. 17 for building several bridges and culverts, for repairing bridges and grading certain roads in Buchanan county. Theo. Steinacker, County Surv.

VAUCOUVER, WASH.—Bids are asked until Oct. 1 for constructing a truss bridge across Cedar Creek, on the W. H. Evinger road, according to reports. A. J. Cook, County Audr.

PORTLAND, ORE.—The county commissioners have let a contract to the Pacific Bridge Co. for putting a new deck on the upper roadway of the steel bridge, at $6,170.

SALEM, ORE.—J. B. Tillotson, Albany, has received a contract from the county commissioners for repairing the Stayton bridge, at $3,649.

PASADENA, CAL.—Bids are asked until Sept. 24 for constructing four stone, concrete and iron culverts in Colorado St., according to reports. Herman Dyer, Cy. Clk.

SAN FRANCISCO, CAL.—The board of public works has been authorized to expend $10,000 for the construction of an earth fill and a concrete and brick culvert at 19th Ave. and Trocadero Gulch.

STOCKTON, CAL.—The following bids were received for constructing the Brandt's ferry bridge: San Francisco Bridge Co., $14,462; H. E. Barber, $17,900; Hyde Construction Co., $21,750; Clark & Henery, $13,468; M. McCarty, $18,950; Healy, Tibbetts & Co., $17,250; Pennsylvania Bridge Co., $17,250; A. W. Burrell, $21,000; J. A. McMahon, $15,980; Cotton Bridge Co., $15,996; C. T. Eckstrom, $19,797; Dundon Bridge & Construction Co., $16,197; Tumelty & Son, $15,383; Clark & Henery, $13,468 (accepted).

FREDERICTON, N. B.—Bids are wanted by the department of public works for the following bridge work: Salisbury, Westmoreland Co., highway bridge; Gullivar bridge, Bas du Vin, Northumberland Co.; Molasses Hill bridge, Upper Blackville, Northumberland Co.; Dunlap bridge, Gloucester Co.; McIntosh bridge, Gloucester Co.; Indian bridge, Madawaska Co.; Rolph bridge, North West Miramichi, Northumberland Co.; Long Marsh Creek bridge, Riverside, Albert Co. Hon. C. H. Labillois, Act. Comr.

REGINA, N.W.T., CAN.—Bids are reported wanted Sept. 15 for a bridge over Oliver's Creek. J. S. Dennis, Deputy Comr. Pub Wks. Also for a bridge over Fulton's Creek, Edmonston settlement, and a bridge at Crewhot's crossing, over the Sturgeon River.

BUILDINGS.

LIVERMORE FALLS, ME.—Nathaniel Noyes & Son, Augusta, Me., have been awarded the contract for a new school building at $17,000.

BOSTON, MASS.—Washington B. Thomas, Vice-Pres. American Sugar Refining Co., will erect several large buildings here. One building at Huntington and Massachusetts Aves. will be six stories high and will cost $100,000. Several apartment houses on Hemenway St. will cost $30,000, and a hotel in the Back Bay district will cost about $150,000. Work on razing the old buildings was begun last week by A. A. Elston.

NEWTON, MASS.—Bids for erecting the new contagious buildings for the Newton Hospital to accommodate 52 patients have been received by Mayor Wilson. Kendall, Taylor & Stevens, Archs., Boston.

BUFFALO, N. Y.—A. Minks & Son have plans for a new theatre to be erected on Main St., for M. S. Robinson & Co., nearly completed. The theatre will be built as soon as possible, and will cost from $30,000 to $50,000.——A mortgage for $65,000 has been filed by the Sisters of St. Francis to complete the new asylum in West Seneca to cost $130,000.

NEW BERLIN, N. Y.—Architect Ague, Jr., of Utica, N. Y., has completed plans for the new office building to be built by J. J. Connell, of Taunton, Mass.

NEW YORK, N. Y.—The following bids were received Sept. 6 for the foundations, vault, etc., for the new Public Library at 42d St. and 5th Ave.: Louis Wechsler, St. James Bldg., $104,700, rock excavation, $3; H. Parker Co., 253 Broadway, $125,900, $2.50; Eugene Lentilhon, 489 5th Ave., $126,400, $1.25; Thos. Dwyer, 2097 1st Ave., $102,747, $3.50. The United Enginering & Contract Co., 17 Park Row, has been awarded the contract for the electric plant, etc., for the east wing of the Metropolitan Museum of Art.——Bids are asked by the fire department, 157 East 67th St., until Sept. 19 for a new fire engine building at 159th St. and Park Ave., and for repairing and plumbing certain other buildings.——We are informed that nearly all contracts have been let for the new building at 6 and 8 E. 65th St., the other contracts will be estimated on by invitation only. Philip Hill, Agent; Hirr & Weekes, Archs., 111 5th Ave.——Chas. Scheidecker, 556 W. 170th St., was low bidder, Sept. 4, for new gas holder on Randall's Island, at $13,481, and for water tower extension to the Metropolitan Hospital on Blackwell's Island, at $13,234.——We are informed that bids are wanted for building a 6-story brick and stone tenement house, 125 x 100 ft., to cost $100,000, except the foundation and mason works. Samuel Green, owner; C. B. Meyer, Arch., 1 Union Square.——We are informed that bids will be opened Sept. 14 for a 7-story stone apartment house to cost $110,000. There will be steam heat, hot water, electric elevators, etc. Geo. F. Pelham, Arch., 523 5th Ave. Teichman & Potter, owners.——Horgan & Slattery, Manhattan, have completed plans for an armory in Brooklyn for the 2d Naval Batallion, to cost $60,000.——Sam'l Bass proposes to build a 7-story brick and stone apartment house at Broadway and 102d St., to cost $160,000.——The 27th St. Co. proposes to build a 9-story apartment on 27th St., near 4th Ave., to cost $78,000.——Plans for a 6-story building on Amsterdam Ave., near 123d St., for Wm. H. Muhlker have been prepared.

NEW YORK, N. Y.—The following are the low bids received Sept. 10 for heating and lighting plants in certain school buildings: Electric plant, Public School 171, Manhattan, Geneva Electric Equipment Co., $4,095; heating, ventilating and electric plant, P. S. 124, Brooklyn, John Henken & Bro., $17,985; heating, ventilating and electric plant, P. S. 125, Brooklyn, Williams & Gerstle, $18,190; heating and ventilating plant, P.S. 56, Brooklyn, Williams & Gerstle, $8,940; heating and ventilating plant, P. S. 78, Queens, John Henken & Bro., $6,687.

POUGHKEEPSIE, N. Y.—Work has been begun on the New England building of Vassar College to cost about $50,000 by B. S. Weeks & Son, of New York.

SYRACUSE, N. Y.—Henry Ryan has begun the construction of the Hartson apartments to cost $53,000. Archimedes Russell, Arch.

CAMDEN, N. J.—We are informed that the contract for a grain elevator at South Camden for Sitley & Son has been awarded to Isadore Green, of Camden. Plans for the gas office building for the Camden Gas Light Co. are still in a preliminary state. Thos. Stephen, Arch., Camden.

NEWARK, N. J.—The following contracts have been let for the four buildings for new city home; mason work, Jos. Oschwald, $30,053; stone work, Passaic Quarry Co., $4,790; carpenter work, Trivett, Walters & Co., $11,241, and W. J. Scharwell, $9,889; plumbing, W. P. Dunn, $3,692, and Jennings & Peoples, $3,131; iron work, C. C. Linau, $3,946; metal and roofing, Baier & Conrad, $4,440; heating and ventilating, E. R. Solean, $3,400 and Budd & Day, $3,700. H. J. King, Arch.

TRENTON, N. J.—The following bids for the new library were opened Sept. 10 by Spencer Roberts, Arch., Philadelphia: M. P. Wells & Co., Philadelphia, $49,455 to $59,305; Machin & Brown, Philadelphia, $57,167 to $68,687; Appleton & Burrell, Philadelphia, $57,535 to $68,400; William R. Dougherty, Philadelphia, $58,725 to $69,575; Charles McCane, Philadelphia, $64,995; Lewis Lawton, $53,589 to $67,559; Wm. Johnson, $70,000, $68,000, $63,000; Wm. J. Morris, $67,800, $57,350; John Barlow, $56,220, $63,620; E. W. Ford, $56,838; F. W. Mather, $57,400 to $66,762.

WEEHAWKEN, N. J.—An election will be held Sept. 18 to vote on the question of a new school building to cost $70,000.

JOHNSTOWN, PA.—Bids are asked until Sept. 15 for erecting a church and parsonage for the M. E. Church. E. C. Brown, Chn. Com.

PHILADELPHIA, PA.—The contract for the building for the Old Ladies' Home at Wissinoming, Philadelphia, has been let to John Rapp, Tacony.——The contract for the Holy Trinity Baptist Church, 18th and Lombard Sts., has been let to H. B. Shoemaker & Co., 113 North 7th St.——W. Copeland Furber, 421 Chestnut St., has made plans and will receive estimates for a number of factory buildings for Remington & Sherman at Richmond and Vienna Sts.—An operation of nearly 100 houses will be started at once by E. L. Seeds at Girard Ave. and Frazier Sts.——Thos. L. Leedom will build 22 houses at Howard and Hope Sts. from plans by Seymour Davis.

PHILADELPHIA, PA.—The Smedley Construction Co., Stephen Girard Bldg., has been awarded the contract for the cement work for the new station for the P. & R. R. R. at Lebanon, Pa. Wilson Bros. & Co., Drexel Bldg., are the architects and contractors.——Stacey Reeves & Son, 1611 Filbert St., have completed plans for a new hospital building at 34th and Pine Sts., to cost $50,000, for the University of Pennsylvania.——Wm. J. Smith has prepared plans for a 3-story school building at Carlisle and Race Sts. to cost $71,000.—Bids were received Sept. 10 by W. A. & A. E. Wells, Contractors, Chicago, and Stephen Girard Bldg., Philadelphia, for the sub contracts for a 3-story residence, 58 x 37 ft., three cottages and a dining hall, 100 x 46 ft., for the Jacob-Tomer Institute, at Port Deposit, Md. Boring & Tilton, Archs., New York.——Plans for new buildings for the Manheim Cricket Club, Germantown, have been prepared and work will begin this fall.

PHILADELPHIA, PA.—The director of public safety received the following bids Sept. 10 for a patrol house: Charles Anchter, $34,924; H. B. Shoemaker & Co., $34,950; H. Kummelle, $36,175; J. H. Jordan, $39,000.

PHILADELPHIA, PA.—The contract for the new school at Tabor and Water Sts. has been let to Joseph Ashby, Fox Chase, Philadelphia.

PITTSBURG, PA.—Morris Kaufmann, of Kaufmann Bros., has purchased property on Squirrel Hill, where he

will build.——W. Arthur Thomas is designing plans for a new 6-story brick warehouse to be erected in the downtown district.——We are informed that it is proposed to install a boiler plant to heat the four new 3-story flats costing $52,000 and also an electric light plant. F. C. Sauer, Arch.

RANKIN, PA.—Reports state that Geo. Hogg & Co., Rankin, have been awarded the contract at $43,800 for a new school building.

WARREN, PA.—Bids are asked until Sept. 15 for erecting a brick store building for N. K. Wendelbee. L. Patterson, Arch.

WILLIAMSPORT, PA.—Plans for the new First Baptist Church building, the foundations of which are now being built, have been adopted; estimated cost, $50,000. Eber Culver, Arch.

DELAWARE CITY, DEL.—Bids are asked until Oct. 12 for erecting an ordnance storehouse at Fort Mott, N. J. J. De L. Lafitte, Constructing Q. M.

FORT DU PONT, DEL.—James Hirons, of Dover, Del., is reported to have been awarded the contract for erecting buildings at Fort Du Pont, at $44,000.

BALTIMORE, MD.—A permit has been granted to Alex. Brown & Sons for a new building at Baltimore and Calvert Sts., to cost $86,797.

ANACOSTIA, D. C.—The plans for 25 additional buildings for the government insane asylum, prepared by Wyatt & Nolting, Builders' Exchange Bldg., Baltimore, Md., have been accepted; estimated cost, $900,000. Dr. R. B. Richardson, Supt. of Construction.

WASHINGTON, D. C.—Bids are asked until Sept. 22 for installing a hot water heating system in officers' quarters Nos. 1, 2 and 3. E. S. Benton, Q. M., Washington Barracks.——The British embassy is to be extended at a cost of $15,000. Edward O. Rives, Arch., London; John MacGregor, Contractor, Washington.——Bids will soon be wanted by the Chesapeake Bay, Land & Improvement Co. for a large hotel building on Chesapeake Bay, about 30 miles from here. Jas. D. Allen, Arch., 9th and Chestnut Sts., Philadelphia.——The contract for additions to the Bureau of Engraving and Printing Building has been let to Noble H. Thomas, of Washington, at $76,600.——The following contracts have been awarded in connection with the construction of the Government Printing Office: Cranford Paving Co., 2-inch broken brick, $1.89 per cu. yd., and 1-inch broken brick, $2.05; Cross Lime & Coal Co., lime, 46½ cts. per bbl. of 200 lbs; Brennan Construction Co., all of the work of fireproof construction where concrete construction is called for, ceilings, 95 cts. per sq. ft., roof, including main cornice, 13 cts.; driveways, sidewalks and interior court, 16 cts., stairway halls and stairways, 18 cts.——The following bids have been received by the District Commissioners for constructing a schoolhouse at Hillsdale: Pavarini & Greer, $35,400 or $33,760; Gleason & Humphrey, $34,800 or $33,500; for heating and ventilating, H. I. Gregory, $2,790.

WASHINGTON, D. C.—The contract for the new Washington public library building has been let to Richardson & Burgess, of Washington, at $277,000. Lieut. Bernard R. Green, Supt.

HAMPTON, VA.—J. E. Downing, Newport News, Va., has been awarded the contracts for the new storehouse and quartermaster's residence on the National Soldiers' Home Grounds.

ROANOKE, VA.—Work on the foundation for the new St. Andrews' Catholic Church, to cost $110,000, has been begun by J. J. Garry, of this city. W. P. Genter, Arch., Akron, O.; Rev. J. W. Lynch, Pastor.

CHARLOTTE, N. C.—The contract for the building for the new Presbyterian College has been let to Nicholas Ittner, of Charlotte, at $46,600.

CHARLESTON HARBOR, S. C.—Bids are asked until Oct. 3 for the materials and the erection of the structure for the depot for the 6th lighthouse district at Castle Pinckney, Charleston Harbor, to cost $35,000. The question of building a sanitarium for federal veterans is also being considered. Capt. J. C. Sanford, U. S. Engr.

BLUERIDGE, GA.—The contract for building the county courthouse has been let to W. W. McAfee, Atlanta, at $20,222. J. W. Golucke & Co., Archs., Atlanta.

SAVANNAH, GA.—The contract for a hospital for the Sisters of St. Joseph's Infirmary has been let to Mills & Bradt, at about $40,000.

ANNISTON, ALA.—The following bids were received Aug. 29 for a new county courthouse: S. C. Houser & Wolsoncroft, of Anniston, $64,150 (accepted); J. H. Duke & Co., Anniston, $75,650; S. W. Marshall, Cleveland, Tenn., $68,300; W. L. Landrum, Mayfield, Ky., $65,982; W. W. McAfee, Atlanta, $63,950.

JOPPA, ALA.—A new school building to replace the structure recently destroyed by fire will be built at once, according to reports.

MEMPHIS, TENN.—Bids are asked until Sept. 24 for erecting a hotel for the Memphis Hotel Co. Stuyvesant Fish, Pres., 214 Broadway, New York, and Chicago, Ill.; M. E. Bell, Arch. and Supt., Memphis.

LOUISVILLE, KY.—Kenneth McDonald, Arch., has filed plans for a new church building for the Walnut St., Baptist Church to cost $80,000.

BELLE CENTER, O.—Bids are asked until Sept. 15 for erecting a brick and stone church building for the First Presbyterian Church. Kramer & Harpster, Archs., Findlay, O.; W. M. Torrence, Chn.

CINCINNATI, O.—Building Inspector G. W. Scott has condemned buildings at 108 and 110 East 6th St., and at 631 Walnut St., owned by Henry Hanna.

CLEVELAND, O.—The board of control has ordered the director of police to re-advertise for bids for the new 7th precinct police station and patrol barns on Broadway.——Walton Bros. will soon erect a new 6-story building on St. Clair St., between Wood and Ontario Sts.; to cost $65,000.

LORAIN, O.—Bids are asked until Sept. 24 for erecting a fire station and jail. Address N. E. Ford, Lorain Block.

DETROIT, MICH.—In our last issue we failed to state that the competition for preparing plans for the aquarium and horticultural buildings, to be open until Oct. 15, is confined to architects of this city. M. P. Hurlbut, Secy. and Gen. Mgr., Comrs. Parks and Boulevards.

MARQUETTE, MICH.—Contracts have been let, according to reports, for a new high school building and ward school, with the understanding that a further contract will be let next year for a manual training school, 90 x 40 ft.; estimated cost $100,000. Charlton, Gilbert & Demar, Archs., Milwaukee, Wis.

BLOOMINGTON, ILL.—The Peoria Stone & Marble Works, Peoria, Ill., is reported to have been awarded the contract at $285,333 for erecting the new county courthouse.

WHEATON, ILL.—Reports state that Elbert H. Gary, Pres. Federal Steel Co., 71 Broadway, New York, N. Y., will erect at Wheaton a Methodist church costing $75,000.

PORTAGE, WIS.—Bids are asked until Sept. 17 for a city hall and armory. J. E. Jones, Mayor.

MANITOWOC, WIS.—The Geo. Georgenson Co., of Green Bay, Wis., has been awarded the contract at $15,200 for a new school building.

MARSHFIELD, WIS.—Fred. Voltmar, Mayor, writes us that the proposed 2-story city hall will be 105 x 108 ft. and will cost $20,000.

TOMAHAWK, WIS.—The English Construction Co. has been awarded the contract for a new city hall. John English, Arch.; W. E. Jeannot, Chn. Com.

BELOIT, KAN.—The contract for the new county court house has been let to Cuthbert & Sargent, at $33,840, and that for the plumbing, heating and electric plants, to the Western Plumbing Co., of St. Joseph, Mo., at $2,525.

FORT KEOGH, MONT.—Bids are asked until Sept. 28 for the construction, plumbing, gas-piping, etc., of a set of officers' quarters, and of a hospital.——Bids for a water tank and trestle at Fort Snelling are wanted until Sept. 15. G. E. Pond, Ch. Q. M., St. Paul.

WHITEHALL, MONT.—Bids are asked until Sept. 20 for a 2-story brick school building. J. W. Morris, Clk.

PETERSBURG, N. DAK.—Bids are asked until Sept. 20 for erecting a school house. T. La Tourette, Clk.

CANTON, S. DAK.—The contract for an Indian insane asylum at Canton has been let by the government to H. S. Pelton & Co., Milwaukee, Wis., at $53,500.

FORT MACKENZIE, WYO.—Bids are asked until Oct. 5 for the materials and for constructing a barrack, officers' quarters, storehouse, coal-shed, etc. Maj. J. W. Pope, Ch. Q. M., U. S. A., Denver, Colo.

FULTON, MO.—The contract for the new science hall, 70 x 50 ft., for the Westminster College has been let to Hurley & Moyer, of Sedalia, Mo. Theo. C. Link, Arch., St. Louis.

ST. JOSEPH, MO.—The following bids were received Sept. 1 for erecting a library building: E. J. Eckel, Arch.: Garthwait & Co., Chicago, $83,800; Chas. Nowland, St. Joseph, $87,870; W. A. & A. E. Wells, Chicago, $88,879; P. B. Buddy, St. Joseph, $89,800; Marshall & Abercrombie, St. Joseph, $91,939; J. W. Lehr, St. Joseph, $94,997; Geo. Arnhold & Son, St. Joseph, $98,563. The following bids for the furnishings of the stack room were received: Combe Printing Co., St. Joseph, stacks, $3,962, extra stacks as per specifications, $1,109; gallery, $1,937. A. B. & W. T. Vestervelt, New York, stacks, $2,957; balcony, $1,451; additional stacks, $957. Library Bureau, Geo. B. Meleny, Mgr., Chicago, stacks and balcony, $5,750. Art Metal Construction Co., B. C. Couchman, agent, Jamestown, N. Y., stacks, $3,007; children's room, $508; gallery, $1,895. Smead & Co., Iron Works, Louisville, Ky., D. E. Lantz, agent, stacks, $3,349; balcony, $1,658; additional shelving, $690; two newspaper stacks, $450 each.

AUSTIN, TEX.—Bids are asked until Oct. 8 for erecting a building for the state epileptic asylum. J. L. O'Connor, Arch., Austin; Jos. D. Sayers, Governor.

ASTORIA, ORE.—All bids for the construction of detention barracks and hospital at the Astoria quarantine station, have been rejected.

BAKER CITY, ORE.—The contract for building the opera house has been let to Grant & Haines at $30,000.

BERKELEY, CAL.—Bids are asked until Sept. 24 for erecting a 2-story 16-room school building. M. L. Hanscom, Town Clk.

FOLSOM, CAL.—Bids are asked until Oct. 1 for erecting a school house on Mormon Island, according to reports. Uriah Stroup, Clk. Bd. School Trustees.

MERCED, CAL.—The county supervisors are reported to have decided to ask for bids at once for a new jail building to cost $20,000.

OAKLAND, CAL.—Work on the foundations for the new Carnegie library building has been begun by Barrett & Hagar. W. M. B. Laville, Arch.——The city of San Diego is also reported as about to let a contract for its proposed Carnegie library to cost $50,000.

REDLANDS, CAL.—Hugh Todd & Son are reported to have prepared plans for a sanitarium to cost about $100,000 for the Redlands Sanitary Co.

SAN JOSE, CAL.—Bids are asked until Sept. 17 for erecting a laundry building at the county infirmary. Jacob Lenzen, Arch.; H. A. Pfister, Clk. Supervisors.

PRESCOTT, ARIZ.—The school trustees have been asked to call an election to vote on the question of issuing $50,000 in bonds for a new building.——L. W. Meyers has secured a contract for stonework on new Hotel Burke.——Belcher & Smith intend to erect a 2-story brick lodging house.

TUCSON, ARIZ.—The following bids were received Aug. 28 by Underwood & Franklin for a new library building: A. Brown, Phoenix, $23,500; F. Brown, Phoenix, $22,851; D. A. Evans, Tucson, $21,465; Whitehead & Sullivan, $20,584; Doe & Parson, Tuscon, $20,500 (accepted).

WILLCOX, ARIZ.—Bids are asked until Sept. 29 for erecting a school building. H. C. Trost, Arch., Tucson, Ariz.; F. R. O'Brien, Clk.

HULL, QUE.—The question of rebuilding the burned city hall at a cost of $20,000 is being considered. Bids for a new quay to cost $35,000 have been received. Bids for building a fire station were received Sept. 4. F. Boult, Cy. Clk.

WATER-WORKS.

BENNINGTON, N. H.—Loring N. Farnham, 53 State St., Boston, has been awarded the contract, at $10,500, for building a dam and reservoir and laying pipe, etc. A. W. Dudley, Engr., Manchester, N. H.

BOSTON, MASS.—The metropolitan water board has completed surveys for a conduit to Framingham. Bids for the Wachusett dam at Clinton are wanted until Sept. 25, as described in our advertising columns.

HOLYOKE, MASS.—Bids are asked by the water commissioners until Sept. 24 for furnishing 40,000 lbs. of pure soft lead, f. o. b. cars Holyoke, as stated in our advertising columns.

PITTSFIELD, MASS.—Plans have been prepared for a new dam at Ashley Lake, to cost $40,000, to be longer and higher than the present one. The board of public works will ask for bids for both concrete and rubble masonry. E. A. Ellsworth, Engr., Holyoke, Mass.

SOUTH MANCHESTER, CONN.—The South Manchester Water Co. has decided to build a new reservoir next spring.

AFTON, N. Y.—The question of increasing the water supply is being considered, according to reports.

AURORA, N. Y.—The question of building a reservoir and purchasing a fire department is being considered.

BROCKPORT, N. Y.—The property of the Brockport & Holley Water-Works Co. has been sold to Herbert Payson, of Portland, Me., for $45,000. Judson Bradt, Mgr.

DUNDEE, N. Y.—The question of building works and an electric plant, to cost $35,000, were voted upon Aug. 31.

HUDSON, N. Y.—The question of sinking artesian wells for a better water supply is being considered. Address Commissioners Rogers and Evans.

LESTERSHIRE, N. Y.—This place did not vote to issue $16,000 in bonds for a reservoir, as reported in our last issue.

MIDDLETOWN, N. Y.—Wm. R. Hill, 280 Broadway, New York, has submitted a report for the proposed new works. It is estimated that a collecting reservoir can be built for $16,000, a 24-in. cast-iron conduit for $34,000, a storage reservoir for $50,000, a 20-in. conduit for $64,000, and for improving the Monhagen reservoir [illegible]000. W. D. Stanton, Pres. Comrs.

SHORTSVILLE, N. Y.—C. L. Ballard, M. E. [illegible]rich and J. P. Peck are on the committee to investi[illegible] the question of works, to cost $21,000.

SUFFERN, N. Y.—The trustees have been asked [illegible] call an election to vote on the question of works. [illegible] F. Witmer, 705 Ellicott Sq., Buffalo, is reported as g[illegible] information regarding works.

ATLANTIC CITY, N. J.—The employment of a [illegible]ult-ing engineer to report on the advisability of cons[illegible]ing a 30-in. wooden main across the meadows has [illegible] directed; estimated cost, $200,000.

FREEHOLD, N. J.—Bids are asked until Oct. 1 f[illegible] furnishing f. o. b. cars at Freehold a steam pump of [illegible]000,000 gallons capacity, as stated in our advertising c[illegible]ns. W. B. Duryee, Secy. Water Comrs.

HOBOKEN, N. J.—Bids are asked until Oct. 2 f[illegible] furnishing 40 tons of 6 and 12-in. water pipe, five 6-in. fire hydrants, six 12-in. valves and six 12-in. branches. Henry Lohmann, Jr., Water Registrar.

MERCHANTVILLE, N. J.—The question of improved water and light service is being considered.

MIDVALE, N. J.—Ex-Mayor R. S. Hewitt, 17 Battery Slip, New York, has formed the Midvale Water Co. to build works; capital stock, $100,000. A reservoir will be built at Cooper Hill, on the Ringwood River. A new school-house, to cost $8,000, will also be built by Mr. Hewitt.

RED BANK, N. J.—This place has voted to spend $10,000 for new water mains

LANCASTER, PA.—The water committee is considering propostion for a filtration plant. Councilmen Humphreville, Yecker and Rathfon and Mayor Muhlenberg are on the committee.

NEW FLORENCE, PA.—The question of issuing bonds for works will be voted upon in November.

PITTSBURG, PA.—The Snow Steam Pump Works, Buffalo, N. Y., and the Camden Iron Works, Camden, N. J., submitted the only bids Sept. 4 for furnishing two 15,000,000-gallon pumps at the Brilliant station, at $350,000 and $272,000, respectively. The bids are considered too high. The bids for completing the Highland reservoir, which were not made public, were submitted by Booth & Flinn and Heeling & Ridge, of Pittsburg, and Sloan & McIlvanie, Allegheny.

ST. MARYS, W. VA.—Bids are asked until Sept. 25 for furnishing the materials and for constructing works, as described in our advertising columns. Jackson & Knox, Engrs., Farmers' & Mechanics' National Bank Bldg., Parkersburg, W. Va.; E. T. Martin, Mayor.

BALTIMORE, MD.—The Baltimore County Electric Light & Water Co. and the Tuxedo & Embla Park Electric Light & Water Co. have applied for franchises in the streets in the vicinity of Govanstown and Roland Park.

LAUREL, MD.—W. C. Miller, of Anacostia, D. C., is reported to have been awarded the contract for the artesian wells for the proposed works, bids for which are asked until Sept. 20, as stated in our advertising columns. Hill, Quick & Allen, Engrs., Equitable Bldg., Baltimore.

NEWNAN, GA.—Reports state that information regarding putting in meters here is wanted by C. M. Spier, Supt. Water-Works.

BURGIN, KY.—The question of works is being considered.

ALLIANCE, O.—The following bids were received Sept. 6 for a water tower for the Fairmount Children's Home: Massillon Bridge Co., Massillon, O., $4,300; Penn Bridge Co., Beaver Falls, Pa., $4,700, and plan B, $4,475.

LORAIN, O.—The water-works trustees are considering the question of putting in a new filter plant. The superintendent has been ordered to purchase some water pipe, etc.

WELLSVILLE, O.—An election will be held in November to vote on the question of issuing $75,000 in bonds for new works.

INDIANAPOLIS, IND.—The Indianapolis Water Co., it is stated, proposes to secure a wafer supply from the canal, using sand filters.

CARROLLTON, ILL.—The springs for the new water supply have been purchased. The improvements will cost about $18,000.

MARSHALL, ILL.—Bids are asked until Sept. 26 for the materials and for constructing works, as stated in our advertising columns. Specifications are on file at the office of Engineering News, Monadnock Block, Chicago. Fred. Wallis, Cy. Clk.

NEOGA, ILL.—Bids are asked until Sept. 25 for furnishing the materials and for constructing works and an electric plant, and also for the purchase of bonds and water certificates, as described in our advertising columns. Jos. D. Wallace, Engr., Champaign, Ill.; L. W. Hickernell, Clk.

NORTH CHICAGO, ILL.—Wm. Wright and W. J. Allen, Waukegan, Ill., are said to have secured the contracts, at $17,000, for building the works. There will be several miles of mains, a water tower 105 ft. high and a Worthington pump of 1,000,000 gallons capacity.

GARRISON, IA.—The question of building works is reported as being considered.

SHAWANO, WIS.—Bids are asked until Sept. 17 for furnishing the materials and for constructing works and an electric plant. Geo. Cadogan Morgan, Engr., 808 Royal Insurance Bldg., Chicago; M. J. Walrich, Mayor; D. E. Wescott, Cy. Clk.

FARIBAULT, MINN.—The contract for a 1,250,000-gallon pumping engine has been let to the Snow Steam Pump Works, Buffalo, N. Y., at $7,500, according to reports.

LINDSTROM, MINN.—Bids were asked until Sept. 10 for constructing works. Chas. Andrews, Village Treas.

STEPHEN, MINN.—The following bids for constructing works and an electric plant were received Aug. 30: Burgess Electric Co., Madison, Wis., $2,411; Ft. Wayne Electric Co., Ft. Wayne, Ind., $2,495; Triumph Electric Co., Cincinnati, $2,521; W. I. Gray & Co., Minneapolis, $2,932; L. J. Linder, Warren, Minn., $3,150; Fairbanks, Morse & Co., St. Paul, $3,800; A. L. Ide & Sons, Springfield, Ill., $4,439. Fairbanks, Morse & Co. secured the contract for the steam plant, at $3,800, and the Triumph Electric Co. for the electric plant, at $2,521. G. A. Ralph, Engr., Crookston, Minn.; J. A. Larson, Recdr.

BLOOMFIELD, NEB.—Bids are asked until Sept. 26 for the materials and for constructing works, as stated in our advertising columns. A. C. Koenig, Engr., Grand Island, Neb.; W. D. Funk, Village Clk.

RANDOLPH, NEB.—Bids are asked until Sept. 20 for digging a well 8 x 90 ft., as stated in our advertising columns. A. C. Koenig, Engr., Grand Island; H. S. Fischer, Clk.

MISSOULA, MONT.—Surveys for a storage reservoir are being made at Rattlesnake Lake. O. C. Finkelnberg, Engr.

MORRILLTON, ARK.—W. J. McDonald, Oak Park, Ill., is said to have been awarded the $32,000 of 5% bonds for works.

CALDWELL, TEX.—This place has voted to sell the works for $17,000, the proceeds to be used for building a school house.

BALLARD, WASH.—The question of a water meter system for the mills is being considered. Address Superintendent Lord.

DEMING, WASH.—The question of works is reported as being considered.

PLEASANTON, CAL.—Plans are reported as being prepared for the proposed works, to cost $20,000.

SEBASTOPOL, CAL.—The question of building works for fire protection is being considered. W. P. Barnes may be addressed.

VALLEJO, CAL.—The city trustees have decided to raise $60,000 in two years to replace seven miles of 8-in. pipe with 12-in. cast-iron pipe. A. P. Noyes, Cy. Engr.

PHOENIX, ARIZ.—The question of securing a permanent water supply is reported as being considered.

PRESCOTT, ARIZ.—This city has voted to issue $100,000 in bonds for a water supply from Chino Valley. The contract has been let to Geo. W. Sturtevant, of Prescott, as noted in our issue of Aug. 23.

SAFFORD, ARIZ.—Jack Farrell is reported as interested in the proposed works for this place.

SALT LAKE CITY, UTAH.—Midgley Bros. submitted the lowest bid, at $4.567, for 5,000 ft. of 6-in. water pipe. It is likely that new bids will be asked.

ARNPRIOR, ONT.—Bids are asked until Sept. 17 for furnishing the materials and for constructing works, to consist of an 80,000-gallon tank on a 75-ft. steel tower, two pumping engines, a filter, two boilers, pipe, hydrants, valves, etc. W. M. Howe, Mayor.

WINNIPEG, MAN.—Bids are asked until 8.30 p. m. Sept. 17 for furnishing a supply of cast-iron water pipe and castings. Col. H. N. Ruttan, Cy. Engr.; C. J. Brown, Cy. Clk.

MIDLAND, ONT.—Reports state that plans for works and a sewerage system will probably be prepared by R. E. Speakman, Canada Life Bldg., Toronto, Ont.

SEWERAGE.

PROVIDENCE, R. I.—Bids are asked until Sept. 18 for furnishing the materials and for constructing about 6,800 ft. of 60 to 20-in. brick sewers, as described in our advertising columns. Robt. E. Smith, Comr. Pub. Wks.

WEST ROXBURY, MASS.—Bids are asked until Sept. 29 for furnishing the materials and for constructing 3,010 ft. of 105 × 116-in. brick sewer, as stated in our advertising columns. W. M. Brown, Jr., Ch. Engr. Metropolitan Sewerage Comn., 1 Mount Vernon St., Boston.

SOUTH NORWALK, CONN.—The following bids were received Sept. 8 for constructing the Springwood system: O'Brien, New Haven, $17,059; Sweeney, Danbury, Conn., $21,293; Jos. Christiano, Greenwich, $46,263; Banker & Johnson, Gloversville, N.Y., $16,226; John J. Gerity, Long Island City, N. Y., $15,422; Chariot & Lubrano, South Norwalk, $12,895; J. J. Horace, Stamford, Conn., $14,500.

ALBANY, N. Y.—Bids are asked until Sept. 17 for 1,560 ft. of pipe sewer in Bassett St. Isadore Wachsman, Clk.

DEPEW, N. Y.—Reports state that the village trustees have asked for bids for a sewerage system and a system of sewage disposal.

ELMHURST (L. I.), N. Y.—The matter of securing a site for a sewage disposal plant, which, with the sewer, will cost $80,000, is being considered. J. H. Johnson, Engr., Borough Sewer Dept., Long Island City.

MAMARONECK, N. Y.—J. F. Fairchild, Engr., Sewer Comr., Mount Vernon, N. Y., has submitted his report on the system for this village, and has recommended that a trunk sewer be built along the Mamaroneck River and Sheldrake Creek, with a system of trunk and lateral sewers. Dr. J. F. Hunter, Chn. Com.

MASSENA, N. Y.—This place has voted against issuing $70,000 in bonds for a system.

NEW YORK, N. Y.—Bids are asked by the department of sewers, Park Row Bldg., until Sept. 19 for sewers in seven streets.

ROCHESTER, N. Y.—Bids are asked until Sept. 14 for sewers in two streets, trap-rock paving, cement walks, etc. E. P. Porter, Clk. Bd. of Contract.

WHITESBORO, N. Y.—The village trustees have rejected the bids received Aug. 27 for building a system, and the matter of new bids has been deferred until a future date.

CAMDEN, N. J.—Bids are asked until Sept. 18 for sewers in four streets. C. H. Ellis, Jr., Chn. Com.

JERSEY CITY, N. J.—Bids are asked until Sept. 18 for building 375 ft. of 42-in. circular brick sewer, etc. J. S. Nolan, Chn. Sewer Com.——The question of building a relief sewer in Fairmount Ave. at a cost of $40,000 is being considered. C. A. VanKeuren, Ch. Engr.——Henry Byrnes has been awarded the contract at about $60,000 for a sewer in Manhattan Ave., known as the Hudson City district sewer.——The question of improving the sewer in the second ward and Hudson City is being considered by the street and water commissioners.

NEWARK, N. J.—Bids are asked until 3:30 p. m. Sept. 13 for over 4,000 ft. of 15 to 6-in. pipe sewers, manholes, etc. J. C. Mundy, Gen. Supt. of Wks.

RAHWAY, N. J.—The contract for a septic tank system of sewage disposal for the state reformatory has been let to Geo. P. Olcott, of East Orange, N. J., at $6,000.

AVALON, PA.—Bids are asked until Sept. 20 for constructing sewers in four streets. Trimble & Miller, Engrs., 430 Fourth Ave., Pittsburg.

CHELTENHAM, PA.—The Cheltenham & Abington Sewerage Co. has been incorporated with a capital of $1,000 by Wm. T. B. Roberts, E. A. Wilson and Chester E. Albright.

ATLANTA, GA.—It is proposed to build 42 × 24-in. to 10-in. brick and pipe sewers in several streets. W. D. Greene, Cy. Clk.

NEW ORLEANS, LA.—Bids are asked until Dec. 15 for the purchase of $15,000,000 of 3 to 4% bonds for the new sewerage system and water-works. The plans for the improvements will be completed by that time and arrangements for the construction will be made. Geo. G. Earl, Gen. Supt.; F. S. Shields, Secy. Drainage Comn.

SHREVEPORT, LA.—The board of health has recommended the construction of sewers for Allendale and St. Paul Bottom. Address Councilmen Agurs and Crain, of the sewer committee, and City Engineer Kane.

CLEVELAND, O.—The following bids for constructing the fifth and last section of the Walworth Run main sewer for the west and south sides were received Aug. 30: W. C. Gayer & Co., $126,638; Beers & Doolittle, $165,812; M. F. Bramley, $174,386; J. Connelly & Son, $187,926; Clements Bros. Construction Co., $189,569; Northern Ohio Paving & Construction Co., $204,765; Reaugh Contracting Co., $205,770. This section will have to cross under 12 railway tracks. Considerable trestle work will be required. The entire sewer will cost more than $800,000. The project was first begun in 1896. The contract for the first section was secured by Wilson & Strack, of Cincinnati, at $118,693. The contracts for the second, third and fourth sections were secured by M. F. Bramley, under the McKisson administration, at $232,000, $182,000 and $144,000, respectively. The last section extends from a point 100 ft. south of Cliff St. to the Cuyahoga River. The section is about 400 ft. in length. John Potts submitted the lowest bid for a sewer in Scranton St. at $9,411.

HAMILTON, O.—Bids are asked by the city clerk until Oct. 4 for constructing a storm sewer in High St.

MANSFIELD, O.—Bids are asked by the secretary of the sanitary board until Oct. 8 for constructing the bacteria beds for the sewage disposal plant.

NORWOOD, O.—Village Engineer Stewart has been directed to prepare plans for a sewage purification plant.

TOLEDO, O.—Bids are asked until Sept. 17 for 10 and 8-in. pipe sewers in several streets. J. E. Connell, Cy. Clk.——C. W. McKinney has been awarded the contract for a sewer.

SAULT STE. MARIE MICH.—We are informed that bids will be asked this week for a sewer in Peck St. P. C. Keliher, Mayor.

FOND DU LAC, WIS.—We are informed that suggestions are wanted by the city officials for constructing a better sewerage system. F. B. Haskins, Mayor.

MILWAUKEE, WIS.—Bids are asked until Sept. 13 and 17 for sewers and water connections. J. R. Wolf, Comptroller.

CRESTON, IA.—Bids are asked until Sept. 17 for sewers in certain streets. J. F. Bryan, Cy. Clk.

DAVENPORT, IA.—Bids will be asked at once for building a sewer to cost $2,000. Address Mayor Heinz.

ST. PAUL, MINN.—Bids are asked until Sept. 17 for 1,300 ft. of 24, 18 and 15-in. pipe, 6 catchbasins, 7 manholes, etc. C. H. Bronson, Clk. Bd. Pub. Wks.

CANTON, S. DAK.—Bids for building a system are reported as wanted at once by the mayor.

WATERTOWN, S. DAK.—Bids are asked until Sept. 17 for 2,690 ft. of 18-in. pipe sewers, average cut 5.5 ft.; 2,195 ft. 15-in. pipe, cut 12 ft.; 1,470 ft. 12-in. pipe, cut 7 ft.; 2,553 ft. 10-in. pipe, cut 9.5 ft.; 4,572 ft. 8-in. pipe, cut 10.5 ft.; 27 manholes; 8 flush tanks, 271 house junctions. G. W. Carpenter, Cy. Engr.; S. B. Howe, Engr., Sioux Falls; H. D. Rice, Cy. Clk.; H. L. Sheldon, Mayor.

GALVESTON, TEX.—The council in August authorized the sanitary committee to advertise for engineers to prepare plans and specifications for a system, and to superintend the construction.

DENVER, COLO.—Bids will be wanted by the board of public works in about a month for constructing a sewer in North Denver, to cost $21,000.——It is proposed to build about 3,500 ft. of 10 and 8-in. pipe sewers for the new shops of the Colorado & Southern Ry., near the Platte River.

FLORENCE, COLO.—The city engineer is reported as making new estimates for the proposed system to cost $35,000.

PORTLAND, ORE.—Swyth & Howard submitted the only bid, Aug. 31, for a sewer in Kelly St., at $24,060. It is considered too high and new bids will probably be asked at once.——The following are the bids received for a new sewer in Holladay Ave: Smyth & Howard, $21,575; Jacobsen & Bade Co., $19,955; Siemmons & Sweeney, $16,069 (accepted).

FOLSOM, CAL.—Bids are asked until Oct. 6 for furnishing the materials and for constructing a sewage pumping plant for the state prison; check, $2,000. B. F. Smith, Clk. State Bd. Prison Directors, Sacramento, Cal.

HANFORD, CAL.—D. Bromfield is reported to have completed plans for sewers to cost $49,420. There will be settling tanks two miles from the town.

POMONA, CAL.—The following bids were received by the council Aug. 23 for building the outfall sewer: Lindgren & Hicks, San Francisco, everything exclusive of screen box, $20,468; Frick Bros. and Pusich, Los Angeles, everything except pipe, $12,567; Arthur S. Bent, Los Angeles, complete, $21,998; H. C. Register, Los Angeles, all pipe f. o. b., Pomona, 60% off list price, except pipe and settling chamber, $9,900; L. Fleming, Pomona, everything except pipe, $10,989; Martin & Ormand, Riverside, everything except sand box, $27,500; Williams, Belser & Co., San Francisco, complete, $22,732, or excepting tunnel, $19,312; Robt. Beyrle, Los Angeles, all construction, tunnel included, 62 cts. per lin. ft.

CHATHAM, N. B.—We are informed that Lea & Coffin, Montreal, Que., and 53 State St., Boston, have been engaged to prepare plans for a system and water-works. Construction will be commenced in the spring. A. McIntosh, Chn. Bd. Pub. Wks.

FREDERICTON, N. B.—F. C. Coffin, 53 State St., Boston, Mass., is reported to have been engaged to prepare plans for a system. The council is said to be asking for bids for a steam road roller.

CRYSLER, ONT.—Bids are asked until 7 p. m. Sept. 14 for 2,387 ft. of 6-in. pipe sewer, 665 yds. of rock excavation, etc. Geo. L. Brown, Engr., Morrisburg, Ont.

STREETS AND ROADS.

BOSTON, MASS.—The state highway commissioners have awarded the contract for building a section of road in Attleboro to William Lake and J. D. Ward, South Framingham, at $2,579. The contract for a section of state road in Gardner has been awarded to A. J. Wellington, Boston, at $3,992. A. D. Bridge will build another section in Bardner, at $3,055.

EASTON, MASS.—It is stated that $5,000 of the state highway appropriation will be allowed this town for the construction of the state highway to Brockton.

PLYMOUTH, MASS.—The county commissioners have authorized the construction of a road in Middleboro from South Middleboro to the Centre, to be about one mile in length. The commissioners have also altered the Highway in Marshfield, extending from Brant Rock for about one mile distant. The road will be protected by 1,400 ft. of sea wall, costing $10,000. Thomas & Connor, Middleboro, have the contract.

SPRINGFIELD, MASS.—The board of supervisors have received the following bids for asphalt paving to be done in Bridge, Court and Sanford Sts., respectively: Central Asphalt Co., $7,121, $915, $686; Boston Asphalt Co., $7,495.

WESTERLY, R. I.—Bids are wanted by the committee on the paving of Main St. until Sept. 18 for granite paving block to be used in about 6,170 sq. yds. of paving; estimated cost, $12,000. Wm. Hoxsey, Clk.

ALBANY, N. Y.—Bids are asked until Sept. 26 for improving the Orchard Park road from Orchard Park to East Hamburg, about 1.15 miles, as stated in our advertising columns. Edward A. Bond, State Engr. and Surv.

NEW ROCHELLE, N. Y.—Plans and specifications have been prepared for the North St. boulevard, to cost about $100,000, and bids will soon be asked for the construction.

NEW YORK, N. Y.—Bids are asked by the department of highways, 21 Park Row, until Sept. 20, for paving 114th St., Manhattan, with asphalt; for paving East Ave., First Ward, Queens, with asphalt, and for regulating and grading 261st St. and Jessup Place, Bronx.

NEW YORK, N. Y.—The board of public improvements has authorized the pavement of the following streets: Borough of Manhattan, 175th St., estimated cost, $19,400; Convent Ave., estimated cost, $21,500; 153d St., estimated cost, $8,250; Borough of Queens, Paynter Ave., estimated cost, $54,952; Ridge St., estimated cost, $16,675; Hunter Ave., estimated cost, $71,698.

ROCHESTER, N. Y.—The council has authorized the construction of a sewer in Ames St., the pavement and construction of sewer in Andrews and St. Paul St., and the laying of a cement walk on Gladstone St., to cost about $40,000. Theo. G. Pulver, Cy. Clk.

WHITE PLAINS, N. Y.—Bids are asked until Sept. 18 for macadamizing portions of eight streets, as stated in our advertising columns. B. F. Darling, Village Engr.; W. B. Sutherland, Village Clk.

BRIDGETON, N. J.—It is stated that the council will authorize $30,000 worth of paving to be done this fall.

NEWARK, N. J.—Bids are asked until Sept. 13 for paving five streets with asphalt, aggregating about 22,600 sq. yds. J. Crowell Mundy, Supt. Wks.

MIDVALE, PA.—Bids are asked until Sept. 19 for paving the portion of Evergreen Ave., between Klapfer St. to Friday St. L. D. Shearer, Clk. Council.

NEWPORT NEWS, VA.—The council has been petitioned to pave Wine and Locust Sts., in this city.

WILMINGTON, N. C.—The board of aldermen have authorized the issuance of $10,000 in bonds for street improvements.

BESSEMER, ALA.—Bids are asked until Sept. 18 for laying about 1,362 sq. yds. of concrete sidewalk, 2,223 lin. ft. of brick or flagstone gutter. Edgar L. Mitchell, Cy. Clk.

BELLEFONTAINE, O.—Bids are asked until Sept. 28 for macadamizing Eastern Ave. about 550 sq. yds. and East Chillicothe Ave. about 7,280 sq. yds. M. J. Nichols, Cy. Clk.

BUCYRUS, O.—Bids are wanted by the city clerk for macadamizing in Middletown St., according to reports.

CINCINNATI, O.—Local papers state that the Barber Asphalt Co. has been awarded the contract for paving Spring Grove Ave., from Hopple St. to Colerain St., with asphalt, at $151,292.

CLEVELAND, O.—The board of control has been requested by the council to prepare plans, etc., for the paving of Forest St. with brick, and the paving of Falcon and Prosser Sts.——The following bids were received by the council on Aug. 31 for paving Perkins Ave. with Medina dressed block: Northern Ohio Paving & Construction Co., $15,484; Brennan & Buettner, $15,887; M. F. Bramley & Co., $16,540. For paving Vestry St. with asphalt, Cleveland Trinidad Paving Co., $4,330; Warren-Scharf Asphalt Paving Co., $4,768.

DAYTON, O.—The council has adopted an ordinance for the paving of 12 streets in this city, according to reports.

HAMILTON, O.—The board of control has awarded the contract for paving North and South Second St. and North Third St. with asphalt to the Ayers Paving Co., Zanesville, at $82,317.

LANCASTER, O.—Bids are asked until Sept. 17 for the improvement of High St. H. T. Meeking, Cy. Clk.

NORTH BALTIMORE, O.—The council has authorized the improvement of Main St. by paving with brick or blocks. Plans are on file at the office of Jay Radabaugh.

ROSEVILLE, O.—The council has authorized the paving of Main and Washington Sts. Plans are on file at the office of Robt. F. Wallace, Village Clk.

YOUNGSTOWN, O.—Bids are asked until Oct. 1 for the purchase of $27,975 in bonds for street improvements. Wm. I. Davies, Cy. Clk.

GALESBURG, ILL.—The board of public improvements let a contract Sept. 1 to J. B. McAuley, at $11,064, for paving Willard St.

MOLINE, ILL.—Bids are asked until Sept. 21 for paving about 11,738 sq. yds. with brick, with the necessary curbing, etc. P. H. Wessel, Pres.; Henry G. Paddock, Secy. Bd. Local Improvements.

OSHKOSH, WIS.—The contract for paving six blocks with brick, on Main St., has been awarded by the council to A. E. Rutledge & Co., Rockford, Ill., at $17,000.

ST. PAUL, MINN.—Bids are asked until Sept. 13 for paving about 356 sq. yds. with brick, and until Sept. 17 for laying about 4,788 ft. of sandstone curb. Wm. L. Ames, Pres. Bd. Pub. Wks.

LAWRENCE, KAN.—Bids are asked until Sept. 17 for paving Massachusetts Ave. with brick, about 17,000 yds., as stated in our advertising columns. A. G. Honnold, Cy. Clk.

KANSAS CITY, MO.—Bids are asked until Sept. 29 for macadamizing 2¾ miles of road on the Dodson and Grand View road. Thomas F. Callahan, County Surv.

ST. JOSEPH, MO.—The council has an ordinance under preparation for the paving of Third and Fourth Sts. between Felix and Messanis, with asphalt.

SEATTLE, WASH.—The board of public works received the following bids Aug. 25 for curbing and laying cement sidewalk on Highland Drive between Seventh Ave., west, and Warren Ave.: Stirrat & Goetz, $10,062 (accepted); Whitmore Concrete Co., $12,205; J. A. Beverly, $12,564; J. A. Bailey, $12,460; T. Ryan, $12,189; C. J. Erickson, $11,269, and J. D. Jones and John Kallberg, $12,208.

SEATTLE, WASH.—Bids are asked until Sept. 15 for grading and curbing in East Madison St. C. B. Bayley, Secy. Bd. Pub. Wks.

HAYWARDS, CAL.—Bids are asked until Sept. 17 for macadamizing a portion of the county road leading from San Lorenzo to Mt. Eden. Frank C. Jordan, Clk. Bd.

OAKLAND, CAL.—The council has authorized the improvement of Lester Ave. by macadamizing, flagging, etc. Chas. F. Ott, Supt. Sts.

OAKLAND, CAL.—Bids are asked until Sept. 17 for macadamizing East 21st St., according to reports. J. W. Tompkins, Cy. Clk.

SAN FRANCISCO, CAL.—Bids are asked until Oct. 4 for clearing and grubbing trees, grading and repairing the roads at National Cemetery. Maj. Oscar F. Long, Q. M.

WINNIPEG, MAN.—It is stated that the city will soon call for bids for asphalting on Notre Dame Ave. from Elm St. to Nina St., to cost $32,685, and on Kennedy from Portage Ave. to Ellis Ave., to cost about $6,655; also for constructing a granolithic sidewalk on Broadway, to cost about $11,831.

MANUFACTURING PLANTS.

HARTFORD, CONN.—The paper mill at Riverton has been purchased by Phillips & Turner, Holyoke, Mass., and will be refitted immediately.

NEW YORK, N. Y.—The five-story factory building at 458 and 460 East 144th St., owned by T. B. Clark, was destroyed by fire on Sept. 8. The loss is reported at $75,000.

ATLANTIC CITY, N. J.—Plans for a manufacturing plant at Chelsea, for the Ventnor Stone & Brick Co., have been prepared by Schermerhorn & Reinhold, Archs., 430 Walnut St., Philadelphia, Pa. The buildings will be one story in height, and will consist of a boiler and engine house, 51 × 72 ft., a machine building, 111x142 ft., and a crane building, 156 × 109 ft.; estimated cost, $200,000. The company will manufacture brick out of cement and sand.

WOODBINE, N. J.—It is stated that J. E. & A. L. Pennock, contractors and builders, 307 Walnut St., Philadelphia, Pa., are receiving estimates for the erection of a factory building for the Baron Hirsch Fund, at this place;

for a new marble library building at Trenton, for the Trenton Free Public Library, and for a new building for the Baldwin Locomotive Works.

BEAVER FALLS, PA.—It is stated that W. S. Miller, Treas.; A. C. Morse, Gen. Supt., and N. A. Gilbert, Attorney for the Shelby Tube Co., have decided to rebuild the company's plant recently destroyed by fire. The new plant will cost about $300,000.

NEW KENSINGTON, PA.—J. F. Tindle and others, formerly connected with the Pittsburg Tin Plate Co. of this town, will erect a six mill plant to manufacture plates by a process invented by Evan J. Francis.——A new corporation, known as the Parnassus Plate Glass Bending Co., will erect a glass bending plant in this place. It is stated that the works will be completed within 60 days. M. H. Young, S. C. Bouland and C. W. Rarie, Parnassus, are interested.

PHILADELPHIA, PA.—W. R. Dougherty and Thomas Little & Sons are said to have called for bids for the erection of a factory for the John T. Lewis & Bros. Co., at Aramingo and Thompson Sts.

HAGERSTOWN, MD.—The stockholders of the Windsor Knitting Mills have, according to reports, decided to increase the capital stock from $9,000 to $12,000, and enlarge the plant.

CHARLOTTE, N. C.—It is stated that a brewery is to be located here by the Wilhelm Greisser Construction Co., of New York. The plant will be 10 stories high, and will have a yearly output of 150,000 barrels.——The charter of the Morrow Bros. & Heath Co. has been amended to permit the building of cotton mills.——A match factory is to be established by the Eureka Lumber Co., of Passaic, N. J., in western North Carolina, where about 16,600 acres of timber land has been acquired.

CHARLESTON, S. C.—It is stated that the Consumers' Ice Co. will take the final steps Nov. 1 toward erecting the proposed new plant. August Weitus, Pres.

HIGH FALLS, GA.—W. J. Kincaid and Seaton Grantland, both of Griffin, are said to be interested in the erection of a cotton mill and a railroad from Jackson or Griffin to this town, to cost in all about $300,000.

PENSACOLA, FLA.—It is stated that the American Car Co., of Detroit, Mich., will establish a branch car works at Mollins this winter.

BIRMINGHAM, ALA.—The Birmingham Rail & Locomotive Co. will build a plant for the manufacture of iron roofing, siding, ceiling, etc., in this city. It is expected to have the plant ready for operation in three months.

SHREVEPORT, LA.—The following bids were received by the Hargrove Cotton Mill, Miss Rosa Kelley, Secy., on Sept. 1, for erecting a new mill building: J. C. Buchanan, Ft. Worth, Tex., $28,756 (accepted); Ganon Bros., Shreveport, $31,600.

WAUKEGAN, ILL.—The American Steel & Wire Co., 71 Broadway, New York, N. Y., is considering plans for building a Bessemer plant in this place, to cost about $3,000,000, according to reports.

ANACONDA, MONT.—Reports state that the Anaconda Copper Mining Co., 52 Broadway, New York, are receiving bids for furnishing the materials, machinery, etc., and for erecting a new steel frame smelter to cost about $3,000,000. It will have a capacity of 5,000 tons a day. There will be about 100,000 yds. earth excavation and 25,000 yds. masonry foundation.

BURK'S FALLS, ONT.—The council has agreed to loan Knight Bros. $20,000 to develop the water power and build and equip a pulp mill and factory to employ about 100 hands.

OWEN SOUND, ONT.—The Parkhill Basket Co. is said to have invited tenders for the erection of a new factory, from plans prepared by J. C. Forster, Arch. The plant will consist of a main building, 44 × 100 ft., a saw and pianing mill, 34 × 80 ft., and a boiler and engine house 32 × 40 ft.

MISCELLANEOUS CONTRACTS.

PIER WORK.—San Francisco, Cal.—Bids are asked until Sept. 10 for building an addition to pier No. 30. Wm. D. English, Secy. Bd. State Harbor Comrs.

QUAY.—Hull, Ont.—The minister of public works has recommended the acceptance of Mr. Bourque's bid for constructing the new quay at Hull, at $38,000.

TELEPHONE SUBWAY.—Syracuse, N. Y.—The Syracuse Telephone & Telegraph Co. has received permission to extend its subways to cost about $20,000.

BREAKWATER AND PIERS.—Lorain, O.—Bids are asked until Oct. 8 for constructing breakwater and piers at Black River H. Col. J. A. Smith, U.S. Engr., Cleveland.

TELEPHONE SYSTEM.—Centralia, Ill.—The Marion County Telephone Co. will make application to the council for a franchise to establish a telephone system in this city.

TELEPHONE SYSTEM.—Camden, N. J.—The council has granted a franchise to the Eastern Telephone & Telegraph Co. to build and operate a telephone system throughout this city.

SEA WALL.—Boston, Mass.—Bids are wanted by the board of harbor and land commissioners until Sept. 20 for building about 1,000 ft. of concrete sea wall at the Sand Hill, Scituate.

LIGHTNING RODS.—Pittsburg, Pa.—Bids are asked until Sept. 17 for placing lightning rods on the city poor farm building at Marshalsea, Pa. John M. Anderson, Dir. Dept. Pub. Charities.

DOCK.—Peoria, Ill.—It is stated that the Chicago, Rock Island & Pacific R. R. is having plans prepared for a new dock on the Illinois River, at Liberty St. W. E. Dauchy, Ch. Engr., Chicago, Ill.

DREDGING.—Jamestown, N. Y.—Plans and specifications are reported to have been completed for dredging the Connewango Valley, south of this city, for which the state has appropriated $35,000.

REPAIRING WHARF.—Oceanside, Cal.—It is stated that a special election will be held Sept. 17 to vote on the question of issuing $5,000 in bonds for repairing and extending the wharf. L. L. Scott, Pres.

DRAINAGE CANAL.—Port Huron, Mich.—Talbert Bros. & Co., of Detroit, are said to have submitted the lowest bid at about $85,000 for constructing the proposed drainage canal, from Lake Huron to Black River.

RIVER IMPROVEMENT.—Cleveland, O.—The board of control has recommended the approval of a contract with the Standard Construction Co. for the widening and shore protection at the Superior St. viaduct, at $52,500.

TELEPHONE.—Staunton, Va.—Bids are wanted by the Long-Distance Telephone Co. of Virginia, Staunton, for constructing 134 miles (copper wire) of long-distance telephone line, in Virginia, at once; and later on, 400 miles.

DRAFT APPARATUS.—Washington, D. C.—Bids are asked until Sept. 17 for installing an induced draft apparatus, piping, etc., in the U. S. Custom House building, St. Louis, Mo. H. A. Taylor, Asst. Secy., Treasury Dept.

WATERWAY IMPROVEMENT.—Freeport (L. I.), N. Y.—Extensive improvements to the water front of this village are projected for this fall by Randall & Miller, Freeport. It is stated that the work will cost about $100,000.

COALING PLANT.—Frenchman's Bay, Me.—Bids are asked until Oct. 23 for erecting a coaling plant at the United States naval coal depot, Frenchman's Bay, Me. R. B. Bradford, Ch. Bureau Equipment, Navy Dept., Washington, D. C.

FIRE DEPARTMENT SUPPLIES.—New York, N. Y.—Bids are wanted by the fire department, 157 East 67th St., until Sept. 19 for furnishing 85 Gamewell fire alarm signal boxes, two first-size hose wagons and one third-size hose wagon.

SIGNAL SYSTEM.—New York, N. Y.—The provisional estimate of the Police Board to the Board of Estimate and Apportionment, contains a request for the installation of a new signal system below 14th St. The system is estimated to cost $300,000.

TUNNEL.—Denver, Colo.—Local papers state that the directors of the Astea, Republic and St. Paul group of mines, in San Juan County, have let a contract for a tunnel 1,300 ft. in length, and for extensive developments, which will cost about $50,000.

LOCK.—Ottawa, Ont.—Bids are asked until Oct. 2 for constructing a new lock on the Lachine Canal, and until Sept. 29 for widening, straightening and deepening the upper entrance of the Rapid Plat Canal. L. K. Jones, Secy. Dept. of Rys. and Canals.

BONDS AND CERTIFICATES.—Neoga, Ill.—Bids are asked until Sept. 25 for the purchase of $3,500 of bonds and $13,500 of water certificates, and for an electric plant and water-works, as described in our advertising columns. H. C. Fancher, Pres.; L. W. Hickernell, Clk.

CANAL.—Moline, Ill.—The U. S. Engineer office has let the contracts as follows for constructing the western section of the main line of the Hennepin canal, six miles: Cogan & Pond, one mile; Callahan Construction Co., two miles; Flinn Brothers, two miles; Bennett, one mile.

GUARD LOCK, ETC.—Albany, N. Y.—The contract for building a guard lock with retaining wall and waste weirs in the Seneca River and Seneca Canal, near the outlet of Seneca Lake, has been let by John N. Partridge, Supt. Pub. Wks., to Craigie & Maggio, Buffalo, at $65,323.

TELEPHONE.—Salisbury, Md.—It is reported that the Diamond State Telephone Co., of Delaware, expects to extend its lines over the entire peninsular. It covers at present about 400 miles of service, and as soon as possible it will be extended down the peninsula through Salisbury to Cape Charles City, Va.

GRADING, ETC.—Boston, Mass.—Bids are wanted by the Metropolitan Park Commission until Sept. 17 for grading 13,000 cu. yds. of earth; for 510 lin. ft. of pipe drain, ranging from 12 to 24 ins.; for 330 cu. yds. of rubble masonry; 9,600 sq. yds. gravel roadway surfacing and 11,000 sq. yds. of loam surfacing.

CONTROLLING WORKS.—Chicago, Ill.—The matter of constructing a controlling works within the city limits has been referred to a special committee composed of Lyman E. Cooley, John Erickson and George Dunlop, Civil Engrs., Chicago, who will investigate the practicability of constructing the works at a cost not to exceed $200,000.

HOOK AND LADDER TRUCK.—Jersey City, N. J.—Charles Esterbrook, Clk. Bd. Fire. Comrs., 224 Bay St., writes us that the contract for furnishing a 75-ft. aerial hook and ladder truck has been let to S. F. Haywood & Co., 357 Canal St., New York, N. Y., agent for the Fire Extinguisher Mfg. Co., of Chicago, Ill.

WHARF, ETC.—Fort Caswell, N. C.—The following bids were received by Lieut. P. P. Bishop, Q. M., U. S. Army, on Aug. 15, for constructing a wharf and railway track at Fort Caswell, N. C.: Walker & McPhee, Norfolk, Va., $24,447; Grant Wilkins, Atlanta, Ga., $18,243; W. R. Bonsal & Co., Hamlet, N. C., $13,312.15 (accepted).

SUPPLIES.—Philadelphia, Pa.—Bids are wanted until Sept. 20 for furnishing supplies for the Philadelphia almshouse, as follows: Iron and steel, iron and galvanized pipe, hardware and tools, plumbers', gas fitters' and machinists' supplies, electrical supplies, etc. John V. Shoemaker, Pres. Dept. Charities and Correction.

WOODEN PIER.—New York, N. Y.—Bids are wanted by the Department of Docks and Ferries, Pier A, North River, until Sept. 17, for constructing a new wooden pier with appurtenances, at the foot of West 59th St., North River, one at the foot of East 21st St., East River, and for dredging on the North River, between the Battery and West 159th St.

FILLING.—Elizabethport, N. J.—U. S. Senator John Kean, Jr., Elizabeth, has contracted for the earth being excavated in the New York rapid transit subway and will ship it to this place, where it will be used in filling in the salt meadow land owned by the Kean family on the shore of Newark Bay. It is proposed to use the land, when reclaimed, for factory sites.

DREDGING, ETC.—Albany, N. Y.—Bids are asked until Sept. 20 for dredging about 17,500 cu. yds. from the harbor and channel at the foot of Canandalgua Lake, Ontario County, for extending the tow-path of the Cayuga and Seneca Canal at Brainard St., Whitesboro, and for improving the cut-offs and bridge the west branch of Eighteen Mile Creek in Lockport and Newfane, Niagara County, as stated in our advertising columns. John N. Partridge, Supt. Pub. Wks.

PIPE LINE.—Philadelphia, Pa.—Local papers state that the Standard Oil Co., New York, has surveyors at work mapping out a route for their pipe lines from Wind Gap, Pa., to Marcus Hook. The pipes are to be laid 24-ins. below the surface, and four-in. pipes will be used for the crude oil and five-in. pipes for the refined material. At Chester, Pa., a refinery will be erected. Pumping stations will be established at Wilkesbarre, and from there to Marcus Hook the oil will run by force of gravity. Rights of way are now being secured.

MEMORIAL MONUMENT.—New York, N. Y.—The lowest bids received by the board of commissioners of the soldiers and sailors memorial arch for erecting the Soldiers' and Sailors' Memorial Monument in Riverside Park, at 89th St., for which $250,000 was appropriated by the legislature in 1893, were as follows: Norcross Bros., 160 Fifth Ave., Georgia marble, $204,620, marble from Continental Quarries, Dorset, Vt., $189,620; Thomas Dwyer, of Cullen & Dwyer, 2097 First Ave., Dorset marble, $189,358, Columbia, Vt., marble, $10,000 more, marble from the Adams & Lee quarries, Massachusetts, $10,000 more, Georgia marble, $15,000 more.

GALVESTON, TEX.—The following is a partial list of the property destroyed by the cyclone which swept over this city and vicinity on Sept. 8: The new wharves and piers being built by the Southern Pacific R. R. Co. were partly destroyed. The property of the several railway companies entering the city generally suffered. The wharves of the Galveston Wharf Co. sustained a loss of about $50,000; in fact the whole water front is wrecked. The three grain elevators and Rey Merschoffer Mill were wrecked. The sugar plantations in the lower coast counties and the paper mills at Sugarland, belonging to Col. Cunningham were destroyed with a loss of about $1,500,000. The county bridge, a long wooden structure which cost about $250,000, collapsed, and an ocean steamer plowed through the piling of two other bridges. A large number of ships are said to have been destroyed. The estimated loss is placed at about $25,000,000, including the destruction at Alvin, Texas City, Seabrook, Hitchcock, etc., covering an area of more than 50 square miles.

PUMPING PLANT.—New York, N. Y.—The following bids were received by Mordecai T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., Washington, D. C., Sept. 8, for installing a pumping plant for dry-dock 3, at the navy yard, New York, (1) being for pump well house, machinery, piping, etc., complete; (2) for pump machinery and piping, furnished complete and installed by government to furnish discharge culvert and install suction pipe from shoe to first elbow; (3) pump well house, machinery, discharge culvert of greater length, the new 45-in. suction pipes, with shoes and 16-in. drainage pipe, installed complete, with new suction chamber in dry dock, and increased work connected with crane tracks:

	1.	2.	3.
United Engineering & Con. Co., N.Y.	$79,435	$74,92[illegible]	[illegible],700
R. G. Packard, Morristown, N.J.	91,420	87,35[illegible]	[illegible],345
Williams & Gerstle, New York	86,490	77,90[illegible]	[illegible],950
Camden (N. J.) Iron Works	89,000	79,40[illegible]	[illegible],000

*And $105,000, conditional.

FOREIGN CONTRACTS AND EXPORT NEWS.

ELECTRIC PLANT.—Blackburn, Eng.—It is proposed to borrow about $980,000 for extending the electric plant. A. S. Giles, Elec. Engr.

COLLEGE BUILDING.—Mexico, Mex.—It is stated that Keener Institute proposes to build a new college building to cost about $100,000.

ELECTRIC LIGHTING.—Velez Blanco, Spain.—Bids are asked by the municipal authorities at once for furnishing 110 or more incandescent lights until March 1, 1920.

ELECTRIC LIGHTING.—Philippopolis, Bulgaria.—Bids are asked by the municipal authorities until Nov. 4 for the purchase of a concession for electric lighting. Pop., 35,000.

FERRYBOAT.—Egremont, Eng.—Bids are asked until Sept. 22 for a 4-screw ferryboat. Deposit for specifications, $11. Flannery & Given, Engrs., 17 Water St., Liverpool.

SEWERAGE SYSTEM.—Basford, Eng.—Plans are wanted until March 25 for a sewerage system for Colwich-Gedling and Burton-Joyce, near Nottingham. C. J. Spencer, Clk. Basford.

INDUSTRIAL PLANTS.—Persia.—Reports state that the Shah of Persia is favorably considering propositions from Antwerp, Belgium, capitalists for the establishment of industrial plants in Persia.

HARBOR WORKS.—Poti, Russia.—Reports state that the Minister of Ways and Communications, St. Petersburg, has asked for an appropriation of about $2,000,000 for improving the port works at Poti.

BRIDGES, ETC.—Sheffield, Eng.—Bids are asked until Sept. 25 for a two 25-ft. span brick arch bridge and for erecting public baths and library, etc. Deposit for forms, $2.50. C. F. Wike, Cy. Engr.

ELECTRICAL APPARATUS.—Milan, Italy.—Reports state that Ceretti & Taufani, contractors and engineers, Milan, want prices for wire rope, electric railway material, and contractor's supplies.

RAILWAY.—Asturias, Spain.—The Railway Co. of Langres has been granted a concession to build a railway from Sotiello to the Port of Musel. A. Rico, Secy., 9 Calle de Ventura de la Vega, Madrid, Spain.

ELECTRIC LIGHTING.—Piatra Neamtz, Roumania.—Bids are asked by the civic administration until Nov. 2 for the purchase of a concession for lighting the town with electricity for 30 years. Pop., 22,000.

TRAMWAY SALE.—Douglas, Isle of Man, England.—Bids are wanted at once by W. H. Walker, C. A. 42 Castle St., Liverpool, Eng., for the purchase of the property of the Isle of Man Tramways & Electric Power Co.

ROADS AND BRIDGES.—Manila, P. I.—Reports state that the Philippine Commission is discussing the appropriation of one-third of the Treasury's $6,000,000 for the construction and repair of roads and bridges throughout the archipelago.

LIFT BRIDGE.—Cobram, N. S. W.—Bids are asked by the principal assistant engineer for roads and bridges, Sydney, or the department of public works, Melbourne, until Oct. 29 for building a steel lift bridge over the River Murray at Cobram.

IRON POSTS.—Cape Town, Cape of Good Hope.—U. S. Consul-General Stowe reports that there is a good market for iron posts for railway and telephone service. In July there were needed several thousand of these posts. Prices should be f. o. b. New York city.

SHOE MANUFACTORY.—Honolulu, H. I.—Reports state that Henry Hill, of Boston, Mass., and W. R. Castle, of Honolulu, are interested in a proposed shoe manufactory to have a capacity for 1,000 shoes. There would also be required plants for the tanning of hides.

ELECTRIC WIRE MAINS.—Dublin, Ire.—Bids are asked until Oct. 4 for high and low pressure electric wire mains, etc., for the new electric plant. Deposit for specifications, etc., $26. Robt. Hammond, Engr., 64 Victoria St., Westminster, London; Spencer Harty, Cy. Engr.

STREET CLEANING AND WATERING MACHINE.—Kensington, Eng.—Bids are asked until about Nov. 25 for furnishing a steam propelled street cleaning and water machine, capacity to be 500 gallons. Plans and photograph are to be made. W. C. Leete, Vestry Clk., Kensington.

STEAM ROAD ROLLERS.—Madrid, Spain.—Bids are asked by the municipality until Sept. 25 for two steam road rollers, weighing 20 tons without coal or water, to cost about $9,260. Bids for a covered market house, to cost about $15,000, are wanted at once by the city authorities of Burgos, Spain.

TECHNICAL SCHOOLS.—Buenos Ayres, Argentina.—Reports state that the government proposes to establish technical schools in ten of the fourteen provinces of the republic. The teachers are to be secured from the United States. Address, after September, Edward Wilde, Argentine Minister, Washington, D. C.

GAS ENGINES AND SEWAGE PUMPS.—Exmouth, Eng.—Bids are asked until Sept. 25 for furnishing and erecting 3 gas engines and 3 sets of single-acting plunger pumps, etc., for the new sewage disposal works. Deposit for specifications, etc., $25. Jas. Mansergh, Engr., 5 Victoria St., Westminster, London. H. C. Adams, Clk.

COPPER MINING.—Chili.—Reports state that Henry L. Bunster, of Conception, Chili, and Sam'l McCrea, of Valparaiso, are in the United States with the object of interesting capitalists in the proposed operation of certain copper mines in Chili it is intended to open. It is also hoped to interest capital in the building of manufacturing plants.

ELECTRIC WIRE MAINS.—London, Eng.—Bids are asked until Sept. 24 for mains for the electric light wires on the Victoria Embankment and Westminster Bridge. Deposit for plans, etc., $5. C. J. Stewart, Clk. County Council, Spring Gardens, London, S. W. Bids for power station piping are wanted by John Young, Mgr. Tramways, Glasgow, Scotland, until Sept. 28.

COLD STORAGE BUILDINGS.—Melbourne, Victoria.—Reports state that the corporation council of Melbourne

proposes to extend the cold storage warehouse, at a cost of about $220,000. The market committee of the Wolverhampton, Eng., council also proposes to extend its system of cold storage at a cost of about $45,000. C. Dawson, Supt. Market Hall, Wolverhampton, England.

RAILWAY WORK.—China.—Reports state that Prof. Mason Wells, of the department of mining and civil engineering of Tengchow University, 55 miles from Chefoo, China, has been engaged to make surveys for rebuilding the railway where it has been destroyed by the recent trouble. Prof. Wells' home is on Central Ave., Wilkinsburg, Pa., where his wife will soon arrive.

SEWAGE PUMPS, ELECTRIC MOTORS, ETC.—Dublin, Ire.—Bids are asked until Oct. 3 for furnishing and erecting pumping machinery, boilers, electric motors and pumps, etc., at the Ringsend sewage disposal works. Deposit for specifications, $25. Bids for 9,000 yds. of asphalt paving were opened Sept. 10. G. Chatterton, Engr., 6 The Sanctuary, Westminster, London; Spencer Harty, Cy. Engr.

CEMENT, ETC.—Havana, Cuba.—Bids are asked until Sept. 19 by Lt. W. J. Barden, U. S. Engr., Ch. Engr., for a supply of Portland cement, and until Sept. 20 by Maj. E. S. J. Greble, Supt. Dept. Charities, for an iron trolley at the Aldecoa Reform School for Girls. Bids were received Sept. 7, by Maj. W. M. Black, Ch. Engr., Division of Cuba, for a passenger landing buildings in Havana.

ELECTRIC PLANT.—Antananarivo, Madagascar.—Press reports state that a concession has been granted by the French Government to Orville Florens, Sr., of Paris, for the supply during 50 years of electric current for lighting and power for Antananarivo and surrounding district. This work is coupled with the supply of water for the same district, and both are to be completed within two and a-half years.

RAILWAY.—Santiago-de-Cuba.—It is understood that the Cuban Central R. R. Co., which is making extensions to its lines, is placing contracts for the bridge work, rolling stock, etc. Further contracts will be let. Buckley & Co., 257 Broadway, New York, are the purchasing agents. E. H. Pearson, Gen. Mgr., London, Eng., is said to be in the United States, and matter may be addressed to him in care of Buckley & Co.

OIL REFINING WORKS.—Sydney, N. S. W.—U. S. Consul General Bray, at Melbourne, Victoria, reports that the Shell Trading & Transport Co., London, Eng., and Sydney, has secured sites for large oil refining works in Adelaide, Brisbane and Melbourne, and in New Zealand. The company also proposes to erect plants in the principal towns of Java and South Africa, Zanzibar and Mombasa, East Africa, and ports of China.

to take steps to have it dredged. The depth of the river at the custom house is but 18 ft. at low water, while 27 ft. is required by a number of steamers. It is likely that the river will be dredged to that depth for a distance of about 3½ miles, and a half a mile wide. The matter to be dredged consists of argillaceous sand and mud. Specifications should be sent of a dredging machine capable of opening and keeping open the channel to the required depth, mentioning consumption of coal per ton of material lifted, and the daily or monthly expense incurred by the machine whilst at work, also specifications of floating stages. Should any firms be disposed to contract to open and keep open the channel, it is quite possible that the government would come to some arrangement with them. Firms interested should communicate through agents of their own in Para, or, in case of need, the U. S. Consul will bring their communication before the notice of the authorities.

RAILWAYS.—British Central Africa.—The New York "Times" states as follows: According to the report of the administration of the protectorate of British Central Africa, that territory has now almost reached the limit of production and export unless a railway can be constructed from Chiromo to Blantyre. It is pointed out that this would set free for ordinary plantation work the many thousands of natives now occupied in transporting loads on their heads. The protectorate is said to have already interested some British capitalists in the undertaking, but nothing definite can be done until after the end of the war in South Africa. The projected railway would eventually be extended from Blantyre to Lake Nyasa. Practically the whole of the available labor supply which should be employed in planting and other operations is occupied in carrying loads from the navigable Shire River to Blantyre and Shire Highlands and to the upper Shire River. The African Transcontinental Telegraph Co. has steadily extended its line to the north. It is now in course of construction up the east of Lake Tamganyika. The company has also run a branch line from Lake Nyasa to Fort Jameson, the present headquarters of the Chartered Company in Northeastern Rhodesia. This branch was completed in October. In spite of the war in South Africa, the Cape to Cairo scheme is being slowly but steadily developed between Egypt and the field of war.

POWER PLANTS, RAILWAYS, BUILDINGS, ETC.—Porto Rico.—We are informed that work on the new sugar central at Salinas, on the south shore, for de Ford & Co., 35 Broad St., Boston, Mass., is well advanced. The construction includes several miles of meter gage railway, and pier and dock work at Ponce. Eventually it will include the improvement of Port America, which the pro-

arc lights, each per annum, $130. The lights to be furnished to be of 425 watts, and known as 2,000-c. p. arc light, to be kept in thorough condition by the bidder, and to be in service between the hours of 15 minutes after sunset and 30 minutes before sunrise. A rebate in proportion to the price will be allowed for any and all lights that are not kept burning the hours above specified; also 50 incandescent lights for lighting truck houses and public buildings at 75 cents each per month, the company to furnish globes, etc.

SEWER CONDUIT.—Chicago, Ill.—The following bids were received Aug. 27, 1900, for furnishing the materials and for constructing the uncompleted portion of the terminal section of the main conduit for intercepting sewers in 39th St., about 5,600 lin. ft. L. E. McGann, Comr. Pub. Wks.; all local bidders: John P. Agnew, 100 Washington St., $118; Metropolitan Contracting Co., Opera House Bldg., $147.50; Nash Bros., Oxford Bldg., $134.99; Nash & Dowdle, 145 LaSalle St., $144; Gahan & Byrne, 4209 Halsted St., $129.38; Griffiths & McDermitt, $154.75; Jos. J. Duffy, 138 Washington St., $158.

PAVING AND SEWERS.—Toledo, O.—The following are the lowest bids received Aug. 6, 1900, for paving and sewers in several streets: Washington St.—Gustave Abele, 20 cts. a cu. yd. for grading, $1.30 a sq. yd. for paving; the next lowest bidder was Thos. Kelly at 17 cts. and $1.41, respectively. Mr. Abele's figures on Michigan St., were $1.30, and the next lowest was $1.55 to $1.77. For Vance St., Abele bid 20 cts. and $1.30, and Chas. McKinney, the next lowest bidder, $1.40. Orange St.—Abele bid 20 cts. and $1.30, and John McMahon 23 cts. and $1.55. Leland Ave.—Abele bid 18 cts. and $1.30, while H. P. Streicher bid $1.14.

MACADAM PAVING.—Saginaw, Mich.—The following contract has been let to John C. Davies for macadam paving in Millard St.: Excavation, 2,500 yds., 27 cts.; macadam, 4,700 yds., $1; gutters, 1,000 sq. yds., $1.43; new curbing, 1,200 ft., 53 cts.; curbing reset, 1,800 ft., 13 cts., $234; drain, 185 rods, $1.20. Total, $7,897.

BUILDING BRICK.—Washington, D.C.—General Wilson, Ch. of Engineers, has awarded the contract for supplying brick for the new government printing office building to the Frederick Brick Co., of Frederick, Md., as follows: 4,500,000 common red brick at $8.85 per M.; 1,035,000 select red brick (pressed) at $16 per M.; and not pressed at $11 per M., and also a large quantity of moulded brick at $33 per M.

PAVING.—San Antonio, Tex.—The following bids were received Sept. 3 for paving in a number of streets; E. G. Truehart, Cy. Engr.:

Bids Received at San Antonio, Tex., Sept. 3, 1900, for Paving in a Number of Streets.

Bidder.	Kind of pavement.	Excavation Cu. yds.	Excavation Price	Concrete Cu. yds.	Concrete Price	Paving Sq. yds.	Paving Price	Curbing Straight Lin. ft.	Curbing Straight Price	Curbing Round corners Lin. ft.	Curbing Round corners Price	Curbing Headers Lin. ft.	Curbing Headers Price	Total.	Time, work'g days.
Louisiana Improvement Co., New Orleans, La.	Asphalt, artificial	37,372	$0.69	16,789	$6.80	100,731	$2.00	60,116	$0.69	1,240	$1.24	4,806	$0.60	$387,317	500
Barber Asphalt Paving Co., New York, N. Y.	" "	37,372	.42	16,789	5.75	100,731	1.50	60,116	.55	1,240	.97	4,806	.45	299,760	180
Southern Asphalt Paving Co., New Orleans, La.	" "	37,372	.40	16,789	5.70	100,731	1.40	60,116	.60	1,240	1.00	4,806	.55	291,623	200
	" "	.....	...	.....	....	100,731	1.50	60,116	.70	1,240	1.10	4,806	.65	197,667*	200
Uvalde Asphalt Co., Cline, Tex	" (rock) ..	37,372	.70	16,789	5.50	100,731	1.40	60.116	.85	1,240	1.40	4,806	.40	314,282	...
J. P. Nelson, San Antonio, Tex.	" " ..	37,372	.65	16,789	5.26	17,626	1.15	60,116	.77	1,240	1.27	4,806	.39	285,662†	225
Texas Asphalt Paving Co., San Antonio, Tex.	" " ..	37,372	.38	16,789	5.28	100,731	1.20	60,116	.62	1,240	1.75	4,806	.50	265,570	210
	" " ..	37,372	.36	16,789	4.40	100,731	1.14	60,116	.56	1,240	1.19	4,806	.50	239,703	150
Parker-Washington Co., Kansas City, Mo.	" artificial	37,372	.36	16,789	4.40	100,721	1.41	60,116	.56	1,240	1.19	4,806	.50	266,901	150
	Brick	35,712	.36	15,959	4.40	95,752	1.96	57,156	.56	1,140	1.19	4,566	.50	306,398‡	150
	Granite	1,660	.36	830	4.40	4,976	4.48	2,960	.56	100	1.19	240	.50	28,439§	...
	Stone	1,660	.36	830	4.40	4,976	2.84	2,960	.56	100	1.19	240	.50	20,278	...
	Mesquite block..	16,322	.36	7,800	4.40	46,802	2.39	27,460	.56	520	1.19	1,689	.50	168,897	...
	Mountain cedar‡.	16,322	.36	7,800	4.40	46,802	2.00	27,460	.56	520	1.19	1,689	.50	150,644	...
T. H. Micklejohn & Co., San Antonio, Tex.	Mesquite block...	.....	...	.....	....	40,000	1.81	.....	...	.....	...	.....	...	72,400‖	...
J. R. Lambert and T. W. Norton, San Antonio, Tex.	Curbing	.....	...	.....	....	.....	....	60,116	.845	1,240	1.15	4,806	.75	55,829	...
David Lehr, San Antonio, Tex.	Curbing	.....	...	.....	....	.....	....	60,116	.72	1,240	1.35	4,806	.65	48,081	...

*Topping and curbing only. †Where there are no street-car tracks; where there are tracks (83,105.5 sq. yds.), $1.24. ‡All streets except Market St. §Market St. only. ‖For topping only. ‡Or creosoted pine block.

ELECTRIC APPARATUS, ETC.—Mieres, Spain.—Bids are asked by the municipality until Sept. 30 for furnishing a Babcock & Wilcox's generator of 1,000 kilogrammes steam per hour, to cost about $1,900, and Lavat turbine of 50 HP. effective and 1,500 revolutions in the pulleys of 320 milometres, to cost $1,750, and other machinery, to cost in all about $6,000. The bids must be presented through resident engineers.

ELECTRIC RAILWAYS.—England.—Bids are asked until Sept. 15 for constructing seven miles of electric tramway for the British Electric Traction Co., Ltd., Dorrington House, Norfolk St., Strand, London, W. C.——Wm. L. Elkins, of Philadelphia, Pa., who has recently returned from England, is quoted as stating that there is a big field for the use of American capital in developing electric traction in London and other large English cities.

COAL CARS.—Pretoria, South African Republic.—Press reports state that Americans are likely to be awarded contracts for 300 large coal trucks, involving $750,000, about to be placed by gold mining companies on the Rand, in which quick delivery is vitally important. Tenders were received from British and American manufacturers, but the latter quoted lower prices and promised more speedy delivery.

LOCOMOTIVES.—Brussels, Belgium.—Reports state that the Minister of Railways, Posts and Telegraphs, Belgium State Railways Administration, will soon let contracts for furnishing 70 locomotives. The Saxony State Railways Administration, Wienerstrasse, 4, Dresden, A, has asked the Diet for 17,000,000 for buying locomotives and cars and another appropriation of 51,000,000 marks for building railways. It is also stated that the Prussian State Railways Administration, Berlin, will let contracts in the near future for about 800 locomotives.

RAILWAYS.—Japan.—The British Consul at Hakodate reports that a section about 35 miles and two small branches of the proposed trunk line have been put into operation. This new line and the Tanko Tetsudo Ry., from Otaru to Muroran, with branches to the Yubari, Poronai, and Ikushimbetsu coal mines, 268 miles, are the only lines open to traffic in Hokkaido at present, but the construction of the government line to Kushiro is already being proceeded with, and it is hoped that the section from Kushiro to Shiranuka, 17 miles, will be open to traffic by October, 1901. The Coal Mining Ry., Tokio, (Hokkaido-Tanko-Tetsudo-Kaisha Ry.), and the Kanson Ry. Co., are making arrangements for building their proposed roads.

LOCOMOTIVES.—Brussels, Belgium.—Reports state that the Humboldt Co., of Kalk, near Cologne, has submitted the lowest bid to La Societe Nationale des Chemins de Fer Vicinaux, rue de la Science 26, Brussels, at about $6,000 each, for furnishing five 16½-ton locomotives. Other bids were received from Kerr, Stewart & Co., London, at $6,440, and seven Belgian companies, ranging from $6,090 to $6,930. The Ateliers Thiriau, of La Crozere, France, submitted the lowest bid, at $6,460 each, for seven 19½-ton engines. No American bids were submitted. La Societe Nationale, which operates 1,083 miles of light railways, divided into 55 leased divisions, has under construction about 190 miles of road, and will soon have about 245 miles more under way. C. de Burlet, Gen. Mgr.; L. Petit, Locomotive Engr. Address as above.

DREDGING MACHINERY.—Para, Brazil.—The British Acting Consul at Para reports that on account of the silting up of the Para River the government will be forced

moters expect to make the finest harbor in Porto Rico. Opportunities for similar enterprises are open in the vicinity of Arecibo, Vega-baja and Carolina on the north, and Ponce, Guayama and Assoyo on the south. Several locations for high masonry dams for power plants are available, with some 10,000 to 20,000 HP. each, where comparatively insignificant volumes of concrete will create veritable mountain lakes. Within a radius of 25 miles of these there are urban populations of from 30,000 to 60,000. Coal is double the New York market rates. There are openings for a great amount of American capital in the island, but it is doubtful whether more than $3,000,000 will be spent before the codification of the laws is completed by the commission now sitting, and until the legislature meets and develops a policy.——It is understood that a concession has been granted to the Linea Ferrer del Oeste, San Juan, which operates a road from Catano to Bayamon, five miles, to build a power plant and canal on th Rio Plata, to cost $200,000. Nothing so far has been done toward building the proposed electric road from Arecibo to Ponce, along the Rio Grande de Arecibo, 50 miles, for Arpin Bros., of San Juan; estimated cost, $1,500,000. It was expected that the principal promoter would return from New York about Sept. 13. The Noble Bros. Co. is interested.——Gen. Roy Stone has located an electric line from San Juan to Ponce, via Toa Alto, Banos and Albonito. The line is projected to go through the Albonito Pass in a cutting 100 ft. deep, at an elevation of about 2,000 ft. It is proposed, in connection with this project, to divert the waters of the Rio de la Plata to the south side of the island, utilizing them first for water powers, and finally for irrigation of plantations between Isabel and Salinas. General Stone claims to have secured a ruling grade of only 3%.——Maj. John L. Clem, Ch. Q. M., U.S.A., Dept. Porto Rico, is having plans prepared for several new brick and concrete buildings on the military post at Ponce.——The Campania de los Ferrocarriles de Porto Rico, H. Charpentice, Gen. Mgr., San Juan, intends to complete its line from Canney to Aguadilla, 25 miles; from Honnigueros to Yanco, 23¼ miles, and a section eastward from Carolina which has been graded. Two tunnels and a considerable viaduct are required on the section from Canney to Aguadilla. Work will be started the first of next year.

CONTRACT PRICES.

PUBLIC LIGHTING.—Pensacola, Fla.—The following bids were received Sept. 1 1900, for public lighting for three, five or ten years: Welsbach Street Lighting Co., three years, $33 each lamp per year; 5 years, $32 each per year; 10 years, $30 per year each. The lights to have 60-c. p. and to burn from 15 minutes after sunset until 30 minutes before sunrise. The company will furnish fixtures, iron posts, etc. The city must contract for not less than 100 lamps. Pensacola Gas Co., lights burning 3 ft. per hour and giving 15-c. p., burning all night and every night, etc., $24 a lamp a year. The city to pay for erecting all lamps on the three-year contract, the company to do so on the five or ten-year contract. Escambia Electric Light & Power Co.: Ten-year contract, 50 arc lights or more, each per annum, $90; 40 arc lights, each per annum, $100; 20 arc lights, each per annum, $110; five-year contract, 50 arc lights or more, each per annum, $100; 40 arc lights, each per annum, $110; 20 arc lights, each per annum, $120; three-year contract, 50 arc lights or more, each per annum, $110; 40 arc lights, each per annum, $120; 20

ASPHALT PAVING.—Newark, N. J.—The Barber Asphalt Paving Co., New York, was awarded the contracts by the street and water commissioners Aug. 16, 1900, at $2.11½ a sq. yd. for asphalt paving in North 11th St. and 7th Ave.; totals, $10,814 and $34,209, respectively. The Metropolitan Asphalt Paving Co., New York, bid $2.15 a yd. The contract for paving in 4th St., to cost about $6,000, was not let.

PAVING.—Detroit, Mich.—The following lowest bids were received by the board of public works, Aug. 10, 1900, for paving in certain streets: Cedar block on concrete—6th St., Geo. E. Currie, $9,962, or $1.67 per yd.; Harper Ave., A. Lloyd, $7,553, or $1.52 per yd.; McGraw Ave., Julius Porath, $10,469, or $1.50 per yd.; Porter St., Thomas Kennedy, $1,787, or $1.64 per yd. Asphalt—Ferry Ave., American Construction Co., $4,108, or $2.55 per yd.; Antoinette St., American Construction Co., $4,182, or $2.47 per yd. For the alley in the block bounded by Farrar, Miami, and Wilcox, J. A. Mercier was the only bidder, with brick, at $2.06 a yd.

ASPHALT PAVING.—Cortland, N. Y.—The following bids were received by the board of public works Aug. 1, 1900, for asphalt paving in Groton Ave.; each bid was in the form of two propositions, No. 1 calling for stone curb, and No. 2 for Portland cement curb and gutter: Warren-Scharf Asphalt Paving Co., sheet asphalt, $2.33; stone curb and gutter, 73 cts. a lin. ft.; total, $25,386 (accepted); Portland cement curb and gutter, 82 cts., total, $24,273. Standard Paving Co., of New York, sheet asphalt, $2.35; stone curb and gutter, 80 cts.; Portland cement curb and gutter, 90 cts. Each bid was for Trinidad lake pitch and a guarantee of 10 years was offered.

PIPE SEWERS—Altoona, Pa.—The following contracts were awarded July 27, 1900, for pipe sewers in fifteen streets; Harvey Linton, Cy. Engr.: W. H. Herr—For 8th Alley and 4th St. alley, 1,176 ft. 8-in., and 162 ft. 10-in. pipe, 52 cts. a ft.; one air inlet, $8; 5th Alley, 370 ft. 15-in., and 1,466 ft. 18-in. pipe, 90 cts.; 30-in. drop surface grate, $38; 8th Avenue, etc., 1,195 ft. 8-in. and 1,480 ft. 10-in. pipe, 50 cts.; 12th Alley, 1,146 ft. 8-in. pipe, 68 cts.; Beale Alley, 927 ft., 56 cts.; extra excavation over what profiles show, $1 a cu. yd.; Isaac Bender—For Crawford Alley, 340 ft. 8-in. pipe, 46 cts.; air inlet, $7, extras 60 cts; 2d Ave., 1,420 ft. 8-in. pipe, 45 cts.; 14th Ave., etc., 2,874 ft. 8-in. and 355 ft. 18-in. pipe, 57 cts.; 30-in. drop surface grate, $35, extra, 65 cts.; 11th Ave., etc., 3,618 ft. 8-in., 410 ft. 15-in., and 260 ft. 18-in. pipe, 63 cts.; W. W. Saup & Co.—For 11th Alley, 706 ft. 8-in. pipe, 68 cts.; air inlet, $6, extra 45 cts.; C. B. Clark—For Chestnut Alley, 440 ft. 8-in. pipe, 72 cts.; inlet, $5.50; manhole, $45; 30-in. drop surface grate, $35, extra 50 cts.; 12th Ave., 2,078 ft. of 8-in. pipe, 71 cts.; 10th Alley, 290 ft. 8-in. pipe, 64 cts.; 13th Ave., etc., 1,404 ft. of 8-in. pipe, 71 cts.; 14th Ave., 740 ft., 8-in. pipe, 73 cts.

WELL.—Coshocton, O.—J. N. Kissner, Coshocton, submitted the following lowest bid July 24, 1900, for constructing a water supply well, 25 × 30 ft.: Dry excavation, 320 cu. yds., $21.33 a lin. ft.; wet excavation, 1st sec. of 3 ft., 870 cu. yds., $36.66 a lin. ft.; 2d sec., $42.16; 3d sec., $48.40; 4th sec., $55.73; 5th sec., $63.80; 6th sec., $73.33; 7th sec., $84.33; 8th sec., $96.80; 9th sec., $121; 10th sec., $160; stone masonry, 185 cu. yds., $9 a cu. yd.; brick masonry, 35 cu. yds., $18 a cu. yd.; lumber, 6,600 ft., $60 per M. ft. B. M.; wrought iron, 1,700 lbs., 4½ cts. a lb.; cast iron, 4 cts. a lb.; wrought iron, one 9 × ½-in. band for shoe; one 6 × ½-in. band for skewback, 1,130 lbs.; 160

⅝-in. bolts, 12 ins. long, 300 lbs.; two 1-in. round rods, 15 ins. long, 78 lbs.; 500 ⅝-in. square drift bolts, 8 ins., 435 lbs.; one 2 x ⅛-in. x 4-ft. 8-in. band for suction pipe, one strap washer for suspension rods, 25 lbs.; one cast-iron cover and ring for manhole, 300 lbs.; total, 3,668 lbs. J. A. Laft, 1393 Oak St., Columbus, submitted the only other bid.

BRIDGE.—New York, N.Y.—The following bids were received Sept. 6 for a bridge over the railway tracks at Bronx and Pelham Park; all are local bidders:

Bids Received at New York, N. Y., Sept. 6, 1900, for a Bridge over the Railway Tracks, Bronx and Pelham Park.

Quantities.	John G. Tait, 94 Barrow St.	J. J. McQuade, 1298 Lex'gton Ave.	O'Hein & Berrigan.	Bart. McDonald.	W. J. Leeson, foot of W. 143d St.	J. C. Rodgers, Jr., 31 125th St.	W. Dwyer, 2097 1st Ave.	Thielmann & Smith, 147 E. 125th St.	Cunningham & Kearns.
Earth excavation ..... 1,500 cu. yds.	$2.00	$2.00	$1.50	$0.50	$1.50	$1.00	$1.00	$0.70	$0.75
Filling ..... 1,000 " "	.20	.50	1.00	40.00	.10	.25	1.00	.30	.70
Gravel filling ..... 700 " "	1.50	2.00	2.00	1.00	2.00	1.25	2.00	1.00	1.50
Spruce on yellow pine piles. 51,400 ft. B.M.	.24	.20	.25	.24	.28	.18	.05	.20	.05
Yellow pine timber ..... 161,500 " "	30.00	35.00	30.00	42.00	32.00	27.00	70.00	36.00	40.00
Iron bolts, spikes, etc..... 4,000 lbs.....	.06	.025	.05	.04	.05	.05	.05	.03	.02
Foundation masonry ..... 2,000 cu. yds.	3.60	3.25	5.00	5.00	4.50	4.50	5.00	6.00	8.00
Broken range ashlar mas'ry 2,300 " "	4.70	4.00	7.50	8.00	8.50	6.00	9.00	9.25	8.00
Granite coping & bdge seats 60 " "	36.00	50.00	40.00	40.00	45.00	30.00	50.00	40.00	33.75
Brick pavement ..... 920 sq. yds.	1.40	2.00	1.00	2.00	3.00	1.50	3.00	2.50	2.25
Bridge superstructure	13,500	17,000	16,500	16,000	14,000	16,000	16,000	16,500	15,500
Total	$56,713	$58,592	$69,675	$69,859	$72,100	$57,512	$70,615	$72,889	$66,125

FILLING.—Fort Caswell, N. C.—The following bids were received by Capt. E. W. Van Cort Lucas, U. S. Engr., Wilmington, Aug. 31, 1900, for 500,000 cu. yds. of sand or earth for filling at Fort Caswell, to raise the island on which the fort is built to a level with the proposed sea wall: Atlantic, Gulf & Pacific Co., New York, 13.7 cts. per cu. yd.; Anderson Mfg. Co., New York, 16.75 cts.; Rich. H. Brodhead, Easton, Pa., 20 cts.; Trenton Stone & Construction Co., Trenton, N. J., 18 cts.; W. R. Bonsal & Co., Hamlet, N. C., 16 cts. Capt. Charles Schuster, Supt. Construction. The contract for the sea wall has been let.

ASPHALT PAVING TILES.—Brooklyn, N. Y.—The park commissioners received the following bids Sept. 6, 1900, for furnishing and laying 110,600 sq. ft. of hexagonal asphalt paving tiles in Red Hook and Fort Greene parks: Hastings Paving Co., $18,800; Eastern Stone Co., $21,982; Abbott-Gamble Contracting Co., $20,461.

BRICK PAVING.—Lawrence, Kan.—The contract for 2,200 yds. of two-course brick paving in Louisiana St. has been let to Hanley & Co., of Topeka, Kan., at $1.24½ a yd. A. G. Honnold, Cy. Clk.

SUBWAY WORK.—Boston, Mass.—The following bids were received by the Boston Transit Commission Sept. 4 for changing the subway near Pleasant St.; contract let to Patrick McGovern; B. Leighton Beal, Secy.:

Bids Received at Boston, Mass., Sept. 4, 1900, for Changing the Subway near Pleasant St.

Quantities.	W. H. Keyes & Co., Boston.	Conners Bros., Lowell, Mass.	Metropolitan Cont. Co., Boston.	National Contracting Co., New York.	Pat'k McGovern, Roxbury, Mass.
Earth excavation ..... 4,000 cu. yds.	$2.40	$2.35	$2.25	$1.60	$1.97
Old concrete to be removed ..... 370 " "	20.00	7.50	6.50	5.00	9.60
Removing steel channels and splicing 15 posts.....	334.00	250.00	511.00	500.00	350.00
Gravel filling under platform ..... 280 cu. yds.	2.30	3.00	1.61	1.80	1.25
Laying 12-in. vitrified pipe..... 300 lin. ft..	.60	.55	.25	.20	.35
" 6-in. " " ..... 90 " "	.50	.40	.25	.12	.25
" 4-in. " " ..... 300 " "	.40	.35	.25	.10	.20
Concrete masonry, Portland cement mortar 1,450 cu. yds.	11.00	8.50	9.00	9.50	7.25
Furnishing and laying:					
Stone masonry for side walls..... 70 " "	22.00	25.00	26.00	25.00	19.00
Gravel coping on side walls..... 27 " "	35.00	34.00	42.00	40.00	35.50
Coating of Portland cement mortar..... 1,000 sq. yds.	.55	.50	.50	.30	.35
Waterproof coating, asphalt..... 660 " "	.35	.50	.35	.30	.30
Tarred felt, pitch, etc. ..... 3,600 " "	.27	.30	.25	.15	.10
Total	$38,511	$30,474	$30,174	$26,998	$26,029

REPAIRING ASPHALT PAVEMENT.—Dayton, O.—M. G. Cain has been awarded the contract at $1.39 a sq. yd. for repairing the asphalt pavement.

INDUSTRIAL NOTES.

CENTRAL STATES WATER-WORKS ASSOCIATION.

The following exhibits were made by the companies named at the fourth annual convention of the Central States Water-Works Association, held at the Chittenden Hotel, Columbus, O., Sept. 4, 5 and 6:

THE UNION METER CO., Worcester, Mass., exhibited its Union rotary piston meters in several sizes.

THE NEPTUNE METER CO., New York, showed its Trident meters in sizes from ⅝-in. to 1 in., inclusive.

MR. BEN. D. POTTS, 33 and 35 East Spring St., Columbus, O., had on exhibition plumbing fittings and couplings.

THE PITTSBURG METER CO., East Pittsburg, Pa., exhibited its line of water meters in sizes from ⅝-in. to 6 ins., inclusive.

THE LEAD LINED PIPE CO., Wakefield, Mass., represented by Mr. Thos. E. Dwyer, showed its line of lead-lined wrought iron pipe and fittings.

THE THOMSON METER CO., New York, showed the Lambert meter in sizes from ⅝-in. to 2 ins. The company was represented by Messrs. E. T. Ivins and H. R. Putnam.

HENRY R. WORTHINGTON, New York, represented by Mr. Geo. W. Galbraith, Manager of the Cincinnati office, exhibited its water meters, including a handsome glass model showing the operation of the same.

THE NATIONAL METER CO., New York, showed its Nash, Crown and Empire meters in various sizes and a number of sectional parts, showing the operation of the meters. Mr. S. L. Purdy represented the company.

THE PAYNE TAPPING MACHINE CO., Fostoria, O., represented by Mr. Walter S. Payne, exhibited its Eureka, New Eclipse, Ideal, Daisy and Dry Pipe tapping machines in various sizes, and tools for use with the same; also clamp cranks and guides for stops or stop and waste cocks and corporation cocks.

THE SIEBEN MFG. CO., Kansas City, Mo., represented by Mr. Henry Sieben, exhibited its ball-bearing cocks, corporation cocks and a line of sanitary plumbing specialties, invented by Mr. Sieben, includes grease traps, back water, floor and stable drains, self-closing and compression faucets, roof flashes, vent couplings, etc.

THE HERSEY MFG. CO., Boston, Mass., represented by Mr. A. H. McAlpine, Manager of the Cincinnati office, had on view its Disc, Torrent and Rotary water meters in various sizes, including a bisected model of each, showing the working of the various parts; also a meter box, of which the particular feature is a base to which the permanent pipe connections are made. Special connections with openings corresponding to the openings in the base of the box and furnished with heavy sole-leather washers are then placed on the meter which is dropped into place and turned until it engages with lugs on the base of the box which hold it in the proper location. Set screws in the tops of these lugs complete the installation of the meter, which can be removed at any time without disturbing the box or the permanent connections, and a piece of pipe with the special connections put in place. The special claims made for the box are saving in expense through having to make the box merely the size of the meter and the ease of removing the meter, no tools being required but the stop-cock key.

THE H. MUELLER MFG. CO., Decatur, Ill., had a large exhibit comprising five styles of gas-tapping machines, three styles of water-tapping machines, a full line of water regulators, curb cocks, corporation and stop and waste cocks, and also a full line of its water-works specialties. Among the last named may be mentioned water-meter couplings and a new design of check valve, for which the company claims special advantages over the common form of check valve. The valve is formed by a revolving disk which prevents leakage and the formation of any sedimentary obstruction which might foul the check. Mr. Fred. B. Mueller represented the company.

CABLE, THORN & CO., 253 Broadway, New York, Eastern Sales Agents, announce that Krause's Portland cement has been accepted at Washington for the new Bureau of Engraving and Printing Building and an order placed for 30,000 bbls. of this brand of cement.

THE EXETER MACHINE WORKS, Pittston, Pa., has removed its St. Louis offices to larger quarters at 710 Lincoln Trust Bldg.

THE TOLEDO BRIDGE CO., Toledo, O., has orders from the C., C., C. & St. L. Ry. Co. for about 200 tons of plate girder bridges.

WESTINGHOUSE, CHURCH, KERR & CO. send out a sales list showing some of the recent purchasers of Roney mechanical stokers. The list includes the names of about 80 power plants, varying in size from 300 HP. to 34,000 HP. The total comprises 266,325 boiler HP., and is an interesting indication of the extent to which machinery is displacing hand labor in feeding coal to boilers in modern power plants.

THE BOSTON BRIDGE WORKS, 70 Kilby St., Boston, is just completing the contract for 750 tons of structural steel work for the new plant of the Stanley Electric Mfg. Co., at Pittsfield, Mass. It reports now in its shops a contract for 300 tons for the new open-hearth plant of the Washburn Wire Co., to be built at Providence, R. I.; also the addition to the river works of the General Electric Co., Lynn, Mass.; also a foot bridge 800 ft. long over the Lehigh River at Easton, Pa., and two large buildings for the Fore River Engine Co., Weymouth, Mass.

THE VIRGINIA BRIDGE & IRON CO., Roanoke, Va., has increased the capacity of its shops about 75% in the past year; but notwithstanding this, it has been necessary to run both day and night to keep up with its orders. During the past year, in addition to its regular bridge and structural steel work, this company has manufactured about 12,000,000 lbs. of steel frames for 100,000-lb. capacity coal cars. The business of the company has been steadily increasing and still further improvements to its plant are contemplated in the near future. Shipments for the month of August were the largest of the year.

BETHLEHEM STEEL CO., South Bethlehem, Pa., announces that Sept. 1 it received a telegraphic order for a port propeller-shaft to replace the one which broke in Plant Line S. S. "La Grande Duchesse" while off Halifax recently. The owners of the vessel specified that the shaft should be made of fluid-compressed open-hearth steel, forged under hydraulic pressure, annealed and rough turned, and the order was booked for shipment Sept. 11. The shaft measured 32 ft. over all x 13¼ ins. diameter, and the shipping weight was 15,458 lbs. It was taken in hand under emergency instructions and went forward Sept. 6, five days in advance of requirements.

THE ABENDROTH & ROOT MFG. CO., 99 John St., New York, has within the past week received three large orders from paper mills for Root's spiral riveted pipe, and has under construction 600 HP. of Root water-tube boilers to be installed in the Atlantic Mutual Insurance Co.'s new building at the corner of William and Wall Sts., New York, of which Messrs. Clinton & Russell are the architects. The company reports also an unusually [illegible] number of orders for boilers for shipment to Cuba and Mexico within the last month. It has decided to open a branch office at Charlotte, N. C., which will be in charge of Mr. Charles H. Sammons, who is well known in the south through his connection with the good-roads movement.

THE DETROIT VALVE & WASHER CO., 99 [illegible] Ave., Detroit, reports an order of 200 hydraulic packings from the Potter Printing Press Co., Plainfield, N. J.; also large orders from Hoe & Co., New York, North Engineering Works, Detroit, and Dieneldt & Eisenhardt, Philadelphia, for hydraulic jacks, all of whom are constant users of its goods. This company has recently equipped its plant with special machines, using compressed air in the manufacture of its washers and packings. The plant is claimed to be quite unique, not only in the special machinery employed, but also because it is said to be the only one in the country making a specialty of this line. The company has all its leather tanned especially for it, and uses the strips and ends for halters, so that there is no appreciable waste of material. The capacity of the company's plant for small sizes under 5-in. is 2,000 a day.

NEW COMPANIES.—Marine Engine & Machine Co., Harrison, N. J.; to build ships, launches, etc.; $50,000; Miller F. Moore, John B. N. Shawell, Albert D. Miller.

Utility Carbon Co., Chicago, Ill.; to manufacture carbon and carbon products; $25,000; J. R. Goodrich, A. Keitel.

American Rolled Steel Car Wheel Co., 419 Market St., Camden, N. J.; to manufacture car wheels, etc.; $300,000; John R. Jones, Thos. S. Boone, Daniel Gallagher, L. H. R. Nyce.

Cambria Foundry & Machine Co., Johnstown, Pa.; $30,000; N. B. Griffith, J. N. Horn, H. M. Benshoff.

Price Brake Co., Jersey City, N. J.; to manufacture brakes; $200,000; F. M. Jeffry, East Orange; W. G. Price, Kingston, N. Y.

Michigan Railway Supply Co., Detroit, Mich.; to manufacture feed water strainers for locomotives; $100,000; J. H. Johnson, W. A. Pungs, D. C. Rexford.

Bacterial Sewerage Purification Co., New York, N. Y.; to manufacture plumbing and sewage disposal systems; $25,000; W. G. Ford, A. J. Provost, Jr.; R. J. Beach, Brooklyn.

Marion Malleable Iron Works, Marion, Ind.; to manufacture malleable iron castings; $75,000; W. P. Gurley, G. A. Bell, E. McDouglas, E. K. Betts.

Hamlin Car & Wheel Mfg. Co., Wilmington, Del.; $100,000; H. F. Hicks, Bloomsburg; J. K. Sharpless, Catawissa; G. W. Gruver, Nanticoke.

Paige Fireproofing Co., Cleveland, O.; $10,000; T. Paige, J. P. Bliss, D. D. McClelland.

National Rolled Steel Car Co., Pittsburg, Pa.; to manufacture railway cars; $600,000; J. A. Troup, Allegheny; W. A. Phillips, H. E. Long.

Bullen Bridge Co., Pueblo, Colo.; $100,000; F. H. Bullen, G. H. Hotson, C. H. Bullen.

Brown Hoisting Machinery Co., Dover, Del.; $2,000,000; H. H. Brown, G. C. Wing, Cleveland, O.; J. Virdin.

Shourek Air-Brake & Mfg. Co., Pittsburg, Pa.; $100,000; J. Shourek, A. Seibel, J. J. Jackson, C. Hess, C. Kessler.

Hewson's Steam Turbine & Water Wheel Co., San Francisco, Cal.; to manufacture steam turbines; $500,000; D. A. Macdonald, F. Huntington L. W. Hauxhurst.

Emerson Pump Co., Washington, D. C.; $200,000; T. H. McKee, J. H. G. Martin, R. Young, R. H. Graham.

American Automatic Valve Co., Jersey City, N. J.; to manufacture vapor and water gages; $125,000; A. C. Jopling, H. S. Collette, W. H. Spurge, New York, N. Y.

Cheltenham & Abington Sewerage Co., Philadelphia, Pa.; $1,000; W. T. B. Roberts, Ogontz; F. H. Roberts, C. E. Albright.

Granite State Electrical Works, Lisbon, N. H.; $25,000; H. C. Libbey, H. H. Atwood, C. J. Currier, J. W. Richardson, W. Williams.

Union Fireproof Construction Co., New York, N. Y.; $150,000; G. Sprickerhoff, Astoria; L. P. Mick, Brooklyn; S. Sterban.

Austin-Bryan Mfg. Co.; to manufacture machinery, etc.; $75,000; E. J. Bryan, W. E. Austin, E. K. Campbell.

Gibbs Electric Signal Co., Portsmouth, R. I.; $50,000; H. T. Gibbs, S. M. Foye, F. G. Sweeney, H. C. Anthony.

Marsden Fireproof Construction Co., Charlestan, W. Va.; $100,000; M. W. Marsden, J. W. Marsden, E. A. Corbin, F. T. Kalss, A. B. Straughton, Philadelphia, Pa.

Willington Street Lighting Co., Jersey City, N. J.; $250,000; Geo. R. Webb, John W. Middendorf, Wm. H. Martin.

Abingdon Water & Light Co., Abingdon, Va.; $25,000; R. M. Page, F. B. Hurt.

City Light & Power Co., Dunkirk, Ind.; $8,000; J. H. Brown, K. A. Tracy, M. J. Cook.

Jerseyville Light, Heat & Power Co., Jerseyville, Ill.; $25,000; G. D. Rosenthal, O. Ferd.

Citizens' Electric Light and Power Co., Kenton, O.; $20,000; John Glenn, W. A. Ross, W. L. Sinby.

Yellow Creek Water Power Co., Bedford, Pa.; $1,000; G. H. Gordon, J. D. Lyons, Philadelphia.

New Kensington Oil & Gas Co., New Kensington, Pa.; $10,000; P. L. Freund, C. Schulz, H. J. Schott, New Kensington, J. G. Bole, Freeport.

Clinton Oil Co., Pittsburg, Pa.; $100,000; H. T. Friend, K. O. Thayer, F. G. Matthews.

Lincoln Gas & Electric Co., Lincoln, Neb.; $1,500,000; H. F. Rose, S. H. Burnham.

Tylersburg Home Gas Co., Tylersburg, Pa.; $7,000; J. Wray, W. A. Wray, Aggie Kerr.

Mail Delivery Notice.

Complaints are frequently sent to us because subscribers do not receive their papers on time. The first pages of Engineering News go to press on Monday each week, the next 32 pages on Tuesday, and the remaining pages, including "Wants," "Proposals" and "For Sale" cards, early on Wednesday. All papers for Boston, Philadelphia, Washington and Greater New York should be received upon the first delivery Thursday. The last of the entire edition is in the New York post-office soon after 6 o'clock Thursday morning. If your paper is not received promptly we suggest that you make a complaint in writing to your local post-office officials. This will be investigated and the letter forwarded to the office where the delay occurs.

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